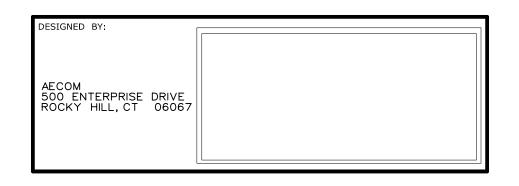
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
BOR-01 THRU BOR-02	SUBSURFACE EXPLORATION PLANS		
BOR-03 THRU BOR-04	P.E. STUDY BORING LOGS		
BOR-05 THRU BOR-09	ROADWAY BORING LOGS		
BOR-10 THRU BOR-11	RETAINING WALL 101 BORING LOGS		
BOR-12 THRU BOR-19	RETAINING WALL 102 BORING LOGS		
BOR-20	RETAINING WALL 103 BORING LOGS		
BOR-21	RETAINING WALL 104 BORING LOGS		
BOR-22	RETAINING WALL 105 BORING LOGS		
BOR-23 THRU BOR-24	RETAINING WALL 106 BORING LOGS		
BOR-25 THRU BOR-32	STRUCTURE BORING LOGS		
BOR-33 THRU BOR-35	UTILITY CORRIDOR BORING LOGS		
BOR-36 THRU BOR-38	TEST PITS		
BOR-39 THRU BOR-42	SOUTH ASSEMBLY AREA BORING LOGS		
BOR-43 THRU BOR-51	NORTH ASSEMBLY AREA BORING LOGS		



					DE
-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED	
-	-	-	-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	CH
-	-	-	-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	
-	-	-	-	THE CONDITIONS OF ACTUAL QUANTITIES	
-	-	-	-	OF WORK WHICH WILL BE REQUIRED.	
-	-	-	-		ĺ
EV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/24/2016	ĺ

NER/DRAFTER:

J. IVES

(ED BY:

D. COSTELLO

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB\_MSH\_0135\_0301\_TSH-V1-S09.dgn

SIGNATURE/ BLOCK:

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

	TOWN:
	STAMFORD
I	DRAWING TITLE:
	BORING LOGS
	INDEX OF DRAWINGS

PROJECT NO.

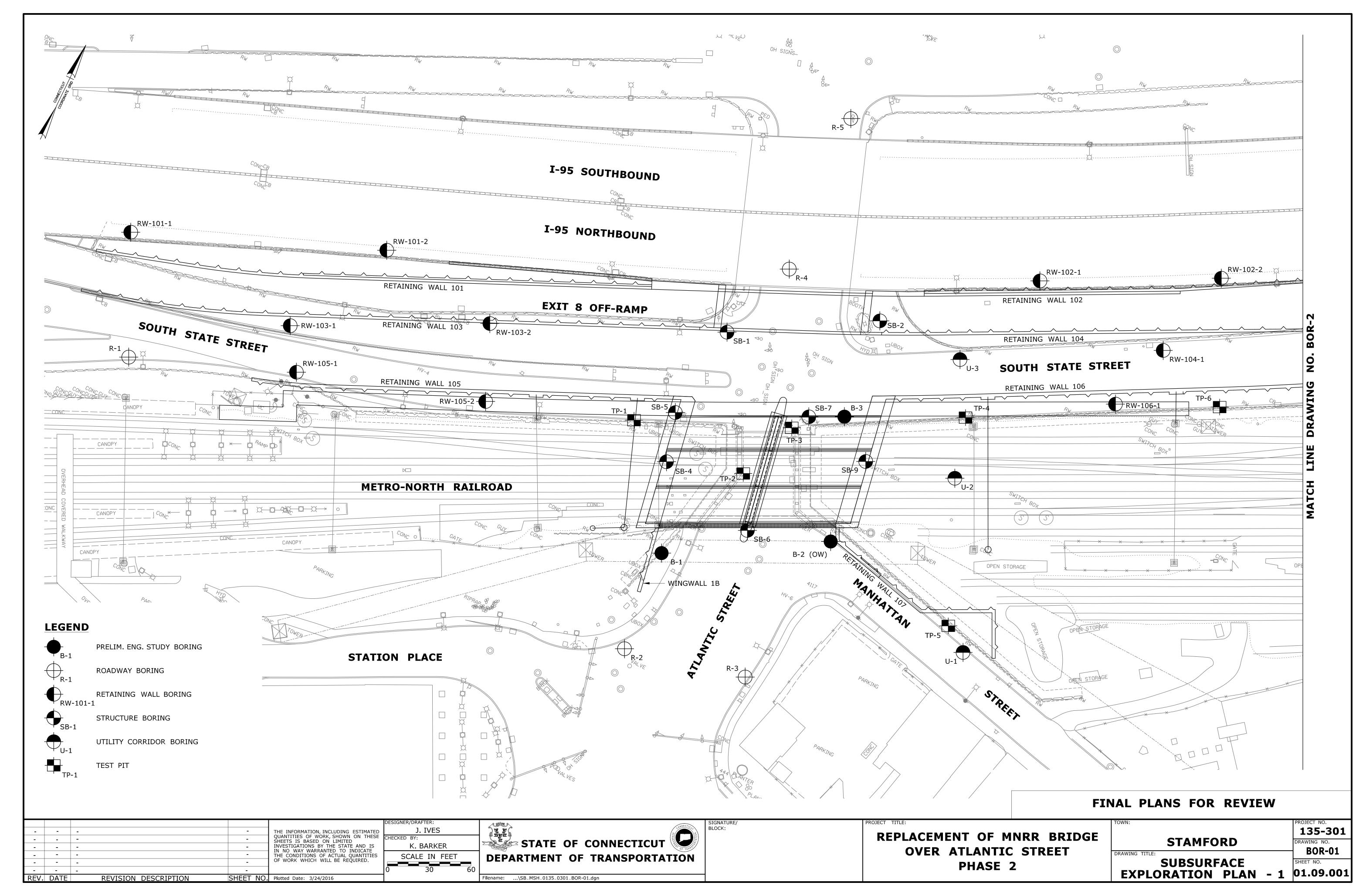
135-301

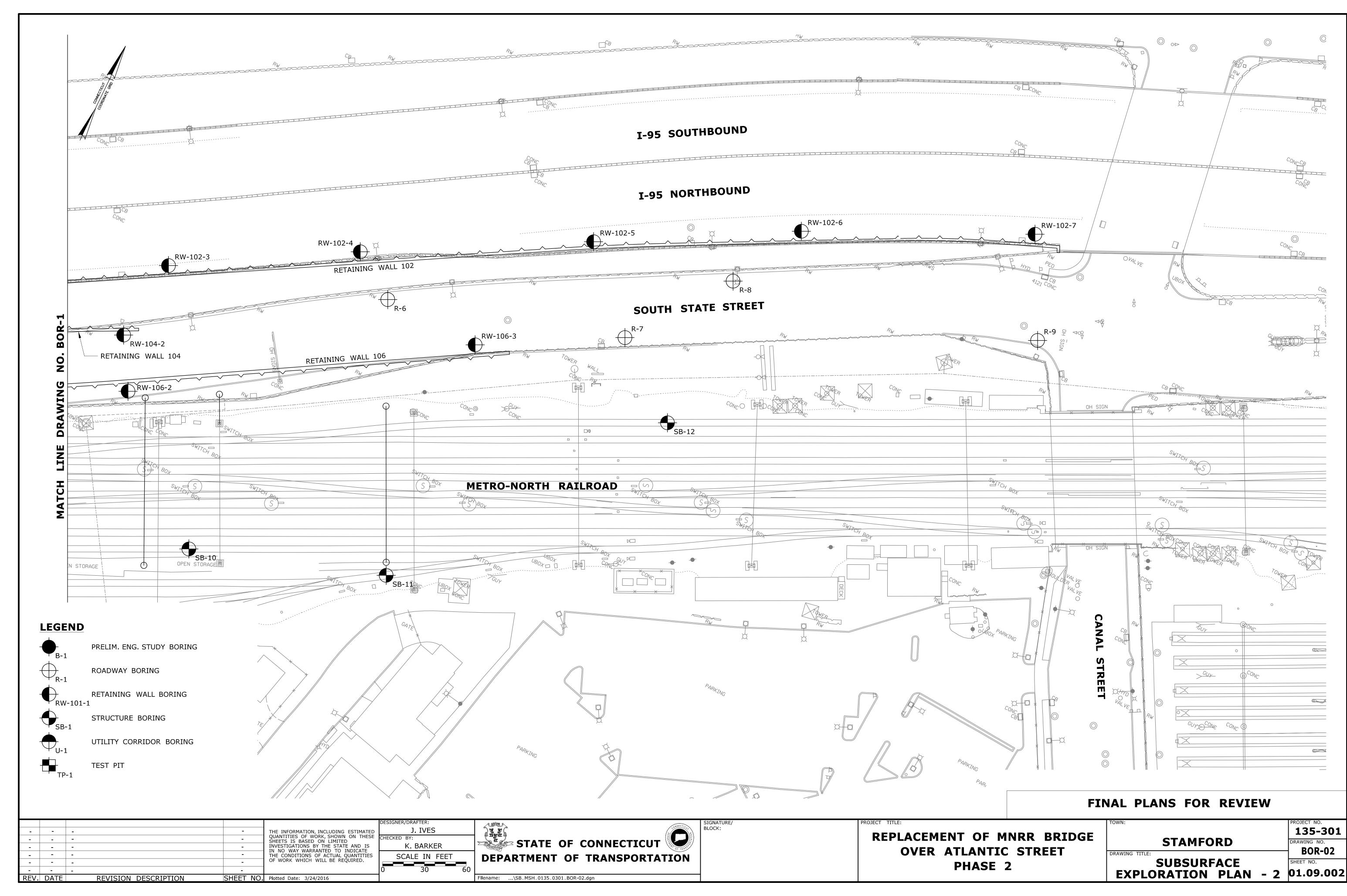
DRAWING NO.

IND-00

SHEET NO.

01.09.000





Stamford

Project No.: 0101-025.0

Sampler Type/Size: SS/1-3/8"

Hammer Wt.: 140 lb. Fall: 30 in.

Town:

Route No.:

Bridge No.:

Project Description: Atlantic Street, Pilot Boring Program

SAMPLES

Hole No.: B-1

Surface Elevation: 15.1

Core Barrel Type: NX

Northing:

Easting:

Stat./Offset: 106+93.6/56.9 LT

579087.48

Elevation (ft)

-15

-10

782265.8

T. McGovern

Driller:

Inspector: D. Lu

Engineer: J. Kidd

Start Date: 8-26-10

Finish Date: 8-26-10

Casing Size/Type: 3"/NW

Hammer Wt.: 300 lb. Fall: 24in.

Groundwater Observations: @None observed

ispect ngine		Kidd	Towr Proje			Stam 0101	-025.0		Stat./Offset: 107+4 Northing: 57914	l4.3/53.7 F l8.1	
tart D	ate: 9-3	-10	Rout	e No	).:				Easting: 78237	'1.18	
	Date: 9-3		Bridg			-			Surface Elevation: 1	4.2	
roject	Descript	ion: Atlantic Stree	t, Pilot	Bor	ring F	Progra	am				
		be: 3"/NW		-			SS/1-3/8"		Core Barrel Type: N	X	
		00 lb. Fall: 24in.				140 II	b. Fall: 30 in.				
round	water Ot	oservations: @Non SAMPLE		erve	u						
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	i i	ren. (m.)	Rec. (in.)	RQD %	Generalized Strata Description		rial Description and Notes	Well	(#) aoitoxola
0-							Asphalt				
_							Subbase				
_	S-1	17 13 8 8	3 2	24	1				se, gray fine to coarse o coarse Gravel, little Sil	t -	
							Sand with Gravel & Silt	S, and, mad mid to	ocaroo Gravor, Intile Oli		
_	S-2	11 7 11 100	)/2" 2	20	2				se, brown fine to coarse to coarse Gravel, little S		- - - 10
5-	S-3	22 50/2"	3	8	4		Weathered Rock		brown fine to coarse to coarse SAND, trace	Silt	
_								END OF BORING	S 8ft		
10-											-5 -
- -											_ _ 0
15— —											_
20-	-	Sample Type: S	= Split	Spo	oon	C = 0	Core UP = Ur	ndisturbed Pistor	V = Vane Shear T	est	5
		• • •	•	-					- 35%, And = 35 - 5		
otal P	enetratio	n in	NO	OTES:	: Augei	chatter	red at approximately	5' b.g.		Shee	
arth:	8ft	Rock: Oft								1 of	1

### FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT SIGNATURE/ BLOCK: J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO \_ | - | -**DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION Filename: ...\SB\_MSH\_0135\_0301\_BOR-03.dan REV. DATE SHEET NO. Plotted Date: 3/24/2016

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

135-301 **STAMFORD** BOR-03 DRAWING TITLE: P. E. STUDY SHEET NO. 01.09.003 **BORING LOGS - 1** 

Hole No.: B-3

T. McGovern

FINAL	<b>PLANS</b>	<b>FOR</b>	<b>REVIEW</b>
		. •	

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2 STAMFORD
STAMFORD

BORING LOGS - 2

PROJECT NO.

135-301

DRAWING NO.

BOR-04

SHEET NO.

01.09.004

10 CADD\510.04 Struc\_Bridge\MSta\_Contract\_Sheet\_Files\SB\_MSH\_0135\_0

Tim Sabo

Casing Size/Type: HSA 3.25" ID

Fall: in.

Blows on

Sampler

per 6 inches

15 12 18 23

20 36 72 95

68 49 52 67

SAMPLES

Groundwater Observations: @None Observed

Inspector: Brian Cantor

Start Date: 6-24-14

Finish Date: 6-24-14

S-1

S-2

S-3

S-4

Hammer Wt.:

Engineer: GeoDesign, Inc.

Driller:

Inspector: Chris Lane Town: Stamford Stat./Offset: 106+14.5/5 Engineer: GeoDesign, Inc. Project No.: 135-301; 135-326 Northing: 579014.16 Start Date: 6-23-14 Route No.: Easting: 782271.94 Finish Date: 6-23-14 Bridge No.: Surface Elevation: 14.6 Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 80 Casing Size/Type: HSA 3.25" ID Sampler Type/Size: SS: 1-3/8" ID Core Barrel Type: Hammer Wt.: Fall: in. Hammer Wt.: 140 Fall: 30 in.	1.3 LT
Start Date: 6-23-14 Route No.: Easting: 782271.94 Finish Date: 6-23-14 Bridge No.: Surface Elevation: 14.6 Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 80 Casing Size/Type: HSA 3.25" ID Sampler Type/Size: SS: 1-3/8" ID Core Barrel Type:	
Finish Date: 6-23-14  Bridge No.:  Surface Elevation: 14.6  Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 80  Casing Size/Type: HSA 3.25" ID  Sampler Type/Size: SS: 1-3/8" ID  Core Barrel Type:	
Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 80  Casing Size/Type: HSA 3.25" ID Sampler Type/Size: SS: 1-3/8" ID Core Barrel Type:	
Casing Size/Type: HSA 3.25" ID Sampler Type/Size: SS: 1-3/8" ID Core Barrel Type:	400
	12R
Hammer Wt.: Fall: in. Hammer Wt.: 140 Fall: 30 in.	
Groundwater Observations: @None Observed	
SAMPLES	4
Generalized Strata Description and Notes  Or Strata Description  Or	2
Sampler Strata Strata Description and Notes  Descriptic (ii.)  Bord No. (ii.)	3 3 3 3 3
Strate Services Strate Solution Services Strate Solution Services Strate Solution Services Strate Services Serv	
Pavement Structure	_
S-1 17 15 13 27 24 17 Miscellaneous Medium dense, brown gray, C-F SAND, some c	-f
Fill gravel, trace silt	
S-2 9 30 40 43 24 7 Very dense, brown gray, Construction Material, Pipe/Tile, Concrete	
5—————————————————————————————————————	<del>-</del> 10
S-3 15 20 20 28 24 13 Stratified Sand & Dense, brown gray, C-F SAND, some c-f gravel trace silt	
Gravel	
S-4 20 40 33 26 24 16 Very dense, brown, C-F GRAVEL, some c-f san trace silt	d,
Very dense brown C-F GRAVEL some c-f san	d,  -
10 S-5 20 100/4" 10 4 very dense, brown, C-1 Growell, some C-1 sand trace silt	
END OF BORING 9.8ft	
15—	-0
20—	<del>5</del>
25—	<b>├</b> 1
	_
	_
30	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%	
Total Penetration in  NOTES: Augus shetter at 10 feet, very hard drilling	Sheet
Auger chatter at 10 feet, very hard drilling.	1 of 1
No. of No. of	1-M RFV

FINAL	<b>PLANS</b>	<b>FOR</b>	<b>REVIEW</b>

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE D. COSTELLO THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-05.dgn

**Connecticut DOT Boring Report** 

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Fall: 30 in.

8" Pavement

trace silt

trace silt

sand, trace silt

Structure

Stratified

Sand &

Gravel

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS: 1-3/8" ID

RQD

Town:

Route No.:

Bridge No.:

Pen. (in.)

24

24

24

24 20

Hammer Wt.: 140

Rec. (in.)

17

15

14

Hole No.: R-1

Core Barrel Type:

**Material Description** 

and Notes

Medium dense, brown, C-F SAND, little c-f gravel,

Medium dense, brown, C-F SAND, some c-f gravel,

Very dense, brown gray, C-F GRAVEL, some c-f

Very dense, brown, C-F SAND and c-f GRAVEL,

Surface Elevation: 22.8

Northing:

Easting:

Stat./Offset: 505+61.9/41.8 RT

579046.35

781860.74

Elevation (ft)

-20

-10

Sheet 1 of 1

SM-001-M REV. 1/02

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

Soil Samples: 5 Core Runs: 0

**STAMFORD** DRAWING TITLE: **ROADWAY** 

BOR-05 SHEET NO. 01.09.005 **BORING LOGS - 1** 

135-301

SM-001-M REV. 1/02

REV. DATE

Trent Roe

Casing Size/Type: HSA 3.25" ID

Fall: in.

Groundwater Observations: @10 ft after 0 hours

Blows on

Sampler per 6 inches

20 21 23 26

16 19 23 16

6 9 13 20

35 20 18 20

16 22 26 50/5" 23

SAMPLES

Inspector: Chris Lane

Start Date: 6-23-14

Finish Date: 6-23-14

S-1

S-2

S-3

S-4

S-5

Hammer Wt.:

Engineer: GeoDesign, Inc.

Driller:

little5
trace silt
_
, trace $\begin{bmatrix} -0 \\ - \end{bmatrix}$
_
<b>5</b> 
_
_
-10
_
_
-15
/t %
Sheet 1 of 1
M-001-M REV. 1/02

Hole No.: R-3

Core Barrel Type:

**Material Description** 

and Notes

Dense, brown, C-F SAND, some c-f gravel, trace silt, trace brick

Dense, brown, C-F GRAVEL and SAND, trace silt,

Medium dense, brown, C-F SAND, some c-f gravel,

Dense, brown, M-F SAND, some c-f gravel, trace silt

Surface Elevation: 15.0

Northing:

Easting:

Stat./Offset: 106+37.1/34.8 RT

579033.86

782358.65

Elevation (ft)

-10

riller:	Trent Roe	Co	onnecticu	ıt DOT Borir	ng Report Hole No.: R-4	
spector:	Jesse McIntyre	Town:	Stam	ford	Stat./Offset: 109+25.1	/15.7 LT
ngineer:	GeoDesign, Inc.	Project	No.: 135-3	301; 135-326	Northing: 579310.6	88
tart Date:	7-7-14	Route N	lo.:		Easting: 782258.8	38
nish Date:	7-7-14	Bridge N	No.:		Surface Elevation: 19.5	)
oject Desc	cription: Reconstructio	n of Atlar	ntic Street a	and Replacem	ent of Metro-North Railroad Bridge No. 8	3012R
asina Size/	/Type: HSA 3.25" ID	Sample	r Type/Size:	SS: 1-3/8" ID	Core Barrel Type:	
ammer Wt.			r Wt.: 140	Fall: 30 in.		
	r Observations: @None					
	SAMPLE					
Deptn (ft) Sample		Pen. (in.)	Rec. (in.) RQD %	Generalized Strata Description	Material Description and Notes	
0				Pavement Structure		
S-	1 8 8 8	18	12	Pavement Structure (Conrete	Medium Dense, light brown, F-M SAND, trace (dry)	_
5 S-2		5 24	22	Subserface) Stratified Sand and	Very Dense, gray/brown, F-C SAND and F-C Gravel, trace Silt (dry)  Very Dense, gray/brown, F-C SAND and F-C	-1
_ S-3	3 18 13 100/6" -	18	15	Gravel	Gravel, trace Silt (dry)	
_					END OF BORING 7ft	_
10—						_1
						_
-						
15—						5
						_
						_
						_
20-						— C
						_
25						-
4						
_						
30	• • •				disturbed Piston V = Vane Shear Test	
	Proportions Used:	Trace =	1 - 10%,	Little = 10 - 20	%, Some = 20 - 35%, And = 35 - 50%	)
otal Penetra	ation in	NOTE	S: Auger Refusa	al at 7 feet		Sheet 1 of 1

### FINAL PLANS FOR REVIEW

DESIGNER/DRAFTER:

J. IVES

L. CONNECTICUT

OUNNITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

DEPARTMENT OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-06.dgn

**Connecticut DOT Boring Report** 

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Fall: 30 in.

Pavement

Structure

Stratified

Sand & Gravel

Miscellaneous

trace brick

little brick, trace silt

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS: 1-3/8" ID

RQD %

Town:

Route No.:

Bridge No.:

24

24

24

24 17

Hammer Wt.: 140

Rec. (in.)

17

12

14

16

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

No. of

Soil Samples: 3

No. of

Core Runs: 0

TOWN:

STAMFORD

DRAWING TITLE:

ROADWAY

PROJECT NO.

135-301

DRAWING NO.

BOR-06

SHEET NO.

01.09.000

BORING LOGS - 2 01.09.006

SM-001-M REV. 1/02

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS: 1-3/8" ID

Town:

Route No.:

Bridge No.:

Hole No.: R-5

Surface Elevation: 24.7

Core Barrel Type:

Northing:

Easting:

Stat./Offset: 110+37.3/29.4 RT

579427.06

782251.25

Mike St. John

Inspector: Chris Lane

Start Date: 8-21-14

Finish Date: 8-21-14

Engineer: GeoDesign, Inc.

Casing Size/Type: NW - 3"

riller:		ent Ro			_		onne		ıt DOT Borir	_		1-6 16+21-9/11 4-1	<b>-</b>
spect		ıris Lar		nc		own:	No :	Stam	tora 301; 135-326			16+31.8/11.4 L 79553.06	. I
nginee	ate: 6-1	eoDesi	<u>g11, 1</u>	HG.		roject Route N		133-3	501, 135-326			82805.94	
	Date: 6-1					ridge N					Surface Elevati		
			Reco	nstru	-			treet a	and Replaceme	ent of Metro-North			
	Size/Ty								SS: 1-3/8" ID		Core Barrel Typ		
	er Wt.:	pc. 110	Fall:			lamme			Fall: 30 in.		Sole Ballel Typ	<u>.                                    </u>	
	water O	bservat							1 4 66 11.1	I			
					PLES				75				
Depth (ft)	Sample Type/No.	р	Sar	ws or npler inche	•	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Mate	erial Description and Notes	on	(#) ** cit o: ** L
0-									Pavement				1
_	S-1	29	24	50/4	"	16	15		Structure Miscellaneous Fill	ont, trace official	C-F SAND, little	gravel, trace	
	S-2	50/0"	1			0	0			No Recovery			
_									Gravel				<b> </b>
5—	S-3	25	33	38	45	24	17			Very dense, brown g trace silt	gray, C-F GRAV	EL, some sand,	_5 _
_	S-4	31	36	28	26	24	17			Very dense, brown, silt	C-F GRAVEL ar	nd SAND, trace	
10-	S-5	21	36	49	50/5"	23	7			Very dense, brown g trace silt	gray, C-F GRAV	EL, some sand,	_0
_	S-6	32	18	29	37	24	15			Dense, brown gray, silt	C-F GRAVEL, s	ome sand, trace	
15	S-7	50/4"	ı			4	0			No Recovery			
_										END OF BORING 1	5.3ft		_
20 —													
_													
25— — —													-  -  -  -
30		0.5	10 T		<u> </u>	ml:+ C		0 - 1	Down LID LI	diatambas Dist	\/ = \/ = O	. o. T t	
		•	•	•						disturbed Piston %, Some = 20 - 3			
otal Po	enetratio	n in				NOTE	S:					She	
41	15.3ft	Rock	Oft									1 of	Ί

### FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-07.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

Soil Samples: 7 Core Runs: 0

135-301 **STAMFORD BOR-07** DRAWING TITLE: **ROADWAY** SHEET NO. 01.09.007 **BORING LOGS - 3** 

SM-001-M REV. 1/02

Trent Roe

Casing Size/Type: HSA 3.25" ID

Fall: in.

Groundwater Observations: @10.3 ft after 0 hours

Blows on

Sampler

per 6 inches

9 20 100/3"

6 6 10 7

17 17 22 23

31 39 46 34

SAMPLES

Inspector: Chris Lane

Start Date: 6-27-14

Finish Date: 6-27-14

S-1

S-2

S-3

Hammer Wt.:

Engineer: GeoDesign, Inc.

Driller:

riller:		ent Ro							ıt DOT Borir	ng Report	Hole No.:	R-8	_
nspect		ris Lar		20		own:		Stam			Stat./Offset:	518+79.5/7.7 LT 579673.45	
ngine	er: Ge ate: 6-1	eoDesi 10_1 <i>1</i>	<u>gn, n</u>	nc.		Project I Route N		133-0	301; 135-326		Northing: Easting:	783022.7	
	Date: 6-					Sridge N					Surface Elev		
			Reco	nstruc				treet a	and Replaceme	ent of Metro-Nort		ridge No. 8012R	
									-				
	Size/Ty er Wt.:	pe. 113	Fall:			damme			SS: 1-3/8" ID Fall: 30 in.		Core Barrel T	ype.	
	lwater O	hservat						170	1 all. 30 ll1.				
		2001141		SAMF		<i>5</i>	<u> </u>		_				
, Depth (ft)	Sample Type/No.	р	Sar	ws on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	terial Descrip and Notes	otion	(3)
0-	S-1	28	50/4	"		10	6		11" Pavement Structure Miscellaneous	silt	y, C-F GRAVEL	., some sand, trace	_ _ 5
_	S-2	11	13	9	10	24	12		Fill	Medium dense, br little silt	own, C-F SANI	), little c-f gravel,	
5— —	S-3	8	12	50/5"		17	0			No Recovery			
_													-0
10-	S-4	21	21	22	26	24	12			Medium dense, gr silt, trace wood	ay, F SAND, litt	le f gravel, trace	_
_	S-5	45	29	30	37	24	0		01-15	No Recovery			{
_ 15—	S-6	33	29	27	24	24	7		Stratified Sand & Gravel	Very dense, gray, silt	C-F GRAVEL,	little c-f sand, trace	_
_	S-7	46	44	47	38	24	4			Very dense, gray,	C-F GRAVEL,	some sand, trace	
_	₁ S-8	50/3"		•••		3	2			silt Dense, gray, C-F	GRAVEL		
_	₹ <u>3-0</u>	5075					2			END OF BORING			
20-													
													-
25-													
_													-2
													-
-													-
30		•	•	•						disturbed Piston			
4-1 P		•	แบกร	s use	u. I			J 70,	Little – 10 - 20'	%, Some = 20 -	- 55%, ANG :		<b></b>
	enetratio		2.5				et bore l			ough concrete from 0.5 t	0 0 foot the	She 1 of	
arth: ' o. of	17.3ft	Rock:	: 0ft o. of			∠. INO S	аниріе П	ωπ / το	ં ઝાલ્હા, ariller went thr	ough concrete from 6.5 to	o o ieel then wood.		

### FINAL PLANS FOR REVIEW

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DEPARTMENT OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-08.dgn

**Connecticut DOT Boring Report** 

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Fall: 30 in.

4" Pavement

Structure

(Asphalt)

8" Pavement Structure

(Concrete)

Weathered

Bedrock

Stratified Sand &

Gravel

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS: 1-3/8" ID

RQD

Town:

Route No.:

Bridge No.:

Hammer Wt.: 140

Rec. (in.)

10

13

15 8

24 0

24

24

Hole No.: R-7

Surface Elevation: 8.8

Core Barrel Type:

**Material Description** 

and Notes

Very dense, brown, C-F SAND and GRAVEL, trace

Medium dense, brown, C-F GRAVEL, some c-f

Very dense, brown, C-F GRAVEL, some c-f sand, trace silt (Weathered Rock)

sand, trace silt

No Recovery

Northing:

Easting:

Stat./Offset: 518+00.4/37.1 RT

579603.07

782970.78

Elevation (ft)

--15

-20

Sheet 1 of 1

SM-001-M REV. 1/02

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

Soil Samples: 8 Core Runs: 0

STAMFORD

DRAWING TITLE:

ROADWAY
BORING LOGS - 4

SM-001-M REV. 1/02

135-301
DRAWING NO.
BOR-08
SHEET NO.
01.09.008

Driller: Trent Roe Inspector: Jesse McIntyre  Connecticut DOT Boring Report Town: Stamford  Hole No.: R-9 Stat./Offset: 521+07.9/35 RT														
Inspect	or: Jes	se Mo	cIntyr	е	-	Town:		Stam	ford		Stat./Offset:	521+07.9/35 RT		
Engine	er: Ge	oDesi	gn, Ir	nc.		Project	No.:	135-3	301; 135-326		Northing:	579730.9		
Start D	ate: 7-7	-14			1	Route N	lo.:				Easting:	783237.65		
Finish I	Date: 7-7	-14			!	Bridge N	No.:				Surface Elev	vation: 5.9		
Project	Descript	ion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replacem	ent of Metro-Nort	th Railroad B	ridge No. 8012R		
Casing	Size/Typ	e: HS	A 3.2	25" IC	) :	Sample	r Type	/Size:	SS: 1-3/8" ID		Core Barrel	Гуре:		
Hamme	er Wt.:		Fall:	in.	1	Hamme	r Wt.:	140	Fall: 30 in.					
Ground	lwater Ob	serva	tions:	@6	.75 ft	t after	0 hou	ırs						
				SAMF	PLES	3			p _				LE L	
l <del>(I</del>	. 0		Dlaw			<u>-</u>	<u>-</u>		Generalized Strata Description	Ma	iterial Descrip	otion	Elevation (ft)	
) =	hple e/N			vs on npler		. (in.)	. (in.)	% (	iera ta crip	IVIA	and Notes		/atic	
Depth (ft)	Sample Type/No.	þ		inche		Pen.	Rec.	RQD	Gen Stra Oes					
0-	07													
_									2" Pavement Structure				_5	
_	S-1	16	14	31	18	24	19		(Asphalt)		n, C-F SAND, s	some coarse gravel,	_	
S-2 14 11 6 8 24 13 8" Pavement Structure (Concrete) Stratified Medium Dense, dark brown, C-F SAND, some coarse gravel, little silt														
S-2 14 11 6 8 24 13 (Concrete) Medium Dense, dark brown, C-F SAND, some coarse gravel, little silt Sand and Loose, dark brown, C-F SAND, some coarse Grave														
5-										0	-			
_	S-3	6	3	3	7	24	8		Gravel	ome coarse Gravei,	0			
_										Top 4" : Medium [	Dense, dark bro	own, C-F SAND,		
_	S-4	2	10	3	4	24	15			some coarse Grave Bottom 11" : Medi				
_											·			
10-	S-5	13	5	2	3	24	17			Loose, dark browr	n/black PEAT			
	S-6	4	4	4	4	24	16			Loose, dark browr	n/black PFAT		<b>-5</b>	
	3-0	4	4	ı	1	24	10			Loose, dark brown	I/DIACKT E/XT			
_													_	
15—													_	
_	S-7	2	2	1	2	24	22			Very Loose, gray	Silty CLAY, trad	ce Peat	-10	
_													_	
_	S-8	2	3	3	4	24	24			Loose, gray Silty (	CLAY, trace Pe	at	-	
_														
20-														
_	S-9	3	4	4	5	24	14			Loose, gray M-F S	SAND, trace silt	İ	<b></b>	
_										END OF BORING	22ft			
_														
25—														
_ 25													-20	
_														
_													_	
_													_	
30-													_	
		-	•	-		•				disturbed Piston				
	F	ropo	rtions	3 Use	d: T					%, Some = 20 -	•	= 35 - 50%		
Total P	enetratio	n in				NOTE	S: Switc	hed fron	n solid stem auger to	hollow stem auger at 5 fe	eet	Shee 1 of		
Earth:	22ft	Rock										1 01	'	
No. of Soil Sa	mples: 9		o. of ore R	uns: (	0							SM-001-M R	REV. 1/02	

FINAL PLANS FOR REVIEW	FINAL	<b>PLANS</b>	<b>FOR</b>	<b>REVIEW</b>
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DESIGNER/DRAFTER:

J. IVES

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

TO BESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB\_MSH\_0135\_0301\_BOR-09.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

TOWN:

STAMFORD

DRAWING TITLE:

ROADWAY
BORING LOGS - 5

PROJECT NO.

135-301

DRAWING NO.

BOR-09

SHEET NO.

01.09.009

Driller:	Tre	ent Ro	e			Co	onne	cticu	ıt DOT Borir	ng Report	Hole No.: RW-101-1	
Inspect		ris Lar				own:		Stam			Stat./Offset: 406+23.3/48.9	LT
Engine		oDesi	gn, Ir	nc.		Project		135-3	301; 135-326		Northing: 579127.47	
	ate: 7-8					Route N					Easting: 781822.77  Surface Elevation: 44.2	
	Date: 7-1		2000	actru		Bridge N		troot (	and Panlacom	ont of Motro Nor	th Railroad Bridge No. 8012R	1
	•			ารแน					•		1	<u> </u>
	Size/Typ			24in		•			SS 1-3/8 " I.D	).	Core Barrel Type:	
	er Wt.: 3 dwater Ob					after 7			b. Fall: 30 in.			
Ground	water Ot	JSEIVai			PLES		2 11001	13				
									Generalized Strata Description			Elevation (ft)
Depth (ft)	Sample Type/No.			vs on		(in.)	(in.)	%	erali a ripti	Ma	aterial Description and Notes	atior
ept	amı	g		npler inche		Pen.	Rec.	RQD	ene trati esc		and Notes	<u> </u>
	S	•					<u>~</u>	<u>~</u>	000			Ш
0-									Pavement			
	S-1	21	32	27	18	24	5		Structure Miscellaneous		n C-F SAND, some c-f gravel,	
_			<i>52</i>	21	10				Fill	trace Silt		
5-	S-2	11	7	6	6	24	4			Medium Dense, b trace silt	rown C-F SAND, some c-f gravel,	40
_	S-3	15	18	19	25	24	12			Dense, brown C-F	SAND, some c-f gravel, trace silt	
_	S-4	14	19	19	14	24	8			Dense, brown C-F	SAND, some c-f gravel, trace silt	
10-	S-5	14	17	11	10	24	9			Medium Dense, b trace silt	rown C-F SAND, some c-f gravel,	—35 —
_	S-6	10	9	6	5	24	8			Medium Dense, b trace silt	rown C-F SAND, some c-f gravel,	
-	S-7	19	17	18	15	24	14			Dense, light brown trace silt	n C-F SAND, some c-f gravel,	-30
15—	S-8	5	3	5	5	24	12			Loose, light browr trace silt	n C-F SAND, some c-f gravel,	
_	S-9	18	9	12	8	24	9			Medium Dense, b trace silt	rown C-F SAND, some c-f gravel,	
20-												<del></del> 25
	S-10	10	7	9	8	24	9			Medium Dense, b organic (peat)	rown SILT, little m-f sand, trace	
_	S-11	10	8	34	11	24	10			Dense, brown M-F	F SAND, some silt, little fine gravel	
25-	S-12	50	26	100/5	<b>"</b>	17	8			Refusal, Very Der trace silt	nse, brown C-F SAND, fine gravel,	-20 - -
_												
_	_									END OF BORING	3 29 3ft	15
30-		•	•	•						ndisturbed Piston	V = Vane Shear Test	
T.,		•	uons	use ———	u. I					<u> </u>	- 35%, And = 35 - 50%	
	enetratio		0.0						isal at 27 feet, drilled t cuttings at 29.3'.	through refusal on inferre	ed conc./bedrock at 2/ Sh	eet f 1
Earth:	29.3ft	Rock:	: 0tt o. of									
	mples: 1			uns:	0						SM-001-M	REV. 1/02

		DESIGNER/DRAFTER:	A SAGE IN	SIGN
-	THE INFORMATION, INCLUDING ESTIMATED	J. IVES		BLOG
-	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED		STATE OF CONNECTICUT	
-	INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	D. COSTELLO	STATE OF CONNECTICOT	
-	THE CONDITIONS OF ACTUAL QUANTITIES		DEPARTMENT OF TRANSPORTATION	
-	OF WORK WHICH WILL BE REQUIRED.		DEPARTMENT OF TRANSPORTATION	
-		SCALE AS NOTED		
SHEET NO.	Plotted Date: 3/24/2016		Filename:\SB_MSH_0135_0301_BOR-10.dgn	

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

**STAMFORD** 

FINAL PLANS FOR REVIEW

135-301 01.09.010

**BOR-10** 

RETAINING WALL 101 BORING LOGS - 1

Border Version: 11/14/08

REV. DATE

REVISION DESCRIPTION

Oriller:	Tre	ent Ro	е			Co	onne	cticu	ıt DOT Borir	ng Report	Hole No.: RW-101-2	
nspecto	or: Ch	ris Lar	ne		T	Town:		Stam			Stat./Offset: 408+11.2/52.3	LT
Engine	er: Ge	oDesi	gn, Ir	nc.	F	Project	No.:	135-3	301; 135-326		Northing: 579196.3	
Start Da	ate: 7-1	1-14			F	Route N	lo.:				Easting: 781993.49	
	)ate: 7-1				I	Bridge N					Surface Elevation: 45.3	
Project	Descript	ion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replaceme	ent of Metro-No	orth Railroad Bridge No. 8012I	₹
	Size/Typ					-			SS 1-3/8 " I.D	).	Core Barrel Type: NQ	
	r Wt.: 3							140 II	b. Fall: 30 in.			
Fround	water Ol	oserva					ed					
			•	SAIVII	PLES				eq _			(ft)
(#)	о <u>с</u>		Blow	vs on		(in.)	(in.)	%	aliz	N	Material Description	Elevation
Depth (ft)	πpl N=α		San	npler		i)			ner ata scri		and Notes	vat
Def	Sample Type/No.	p	er 6	inche	es	Pen.	Rec.	RQD	Generalized Strata Description			Ee
0									Pavement			
_		-							Structure			_ 43
_	S-1	15	15	18	19	24	15		Miscellaneous Fill	Dense, brown C silt	C-F SAND and C-F GRAVEL, trace	
		_										
_	S-2	11	12	12	16	24	2			Medium dense, trace silt	brown C-F SAND, trace c-f gravel,	_
5—		_								Modium donco	brown C E SAND little a f gravel	-40
	S-3	5	8	4	12	24	12			trace silt	brown C-F SAND, little c-f gravel,	
+		_								Very dense bro	wn C-F GRAVEL, some c-f sand,	_
_	S-4	8	14	63	23	24	12			trace silt	WITO-I GIVAVEE, Some o-i Sand,	_
_		-								Dense brown C	C-F GRAVEL, some c-f sand, trace	_
10	S-5	10	29	12	10	24	12			silt		<b>-35</b>
	0.0						4.0			Medium dense,	brown C-F SAND and C-F GRAVEI	_,
	S-6	6	9	6	6	24	12			trace silt		
		-										
15												
	S-7	53	35	15	11	24	13			Dense brown C	C-F GRAVEL, little c-f sand, trace sil	-30
	<u>0-1</u>		33	13	11	24	13			Bonos, Brown S	or o	
	S-8	6	7	6	6	24	14				brown C-F SAND and C-F GRAVE	-,
			•	O	O	2-	'-			trace silt		
20		-										
_	S-9	20	11	10	11	24	8			Medium dense,	Weathered Rock	<del>-25</del>
_		-										
_	S-10	3	4	4	4	24	13			Loose, brown/gr silt	rey C-F SAND, little c-f gravel, trace	
		-								One		
25		_										_20
_	S-11	15	14	13	14	24	12			Medium dense, little brick, trace	brown C-F GRAVEL and C-F SANE silt	),   20
		_								,		
_												
_												_
30		•			0 0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				p ( ) = 1 = 1 = 1 = 1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		-		-							on V = Vane Shear Test	
		•	rtions	Use	d: Ti						0 - 35%, And = 35 - 50%	
otal Pe	enetratio	n in				NOTE	S: Wood	d/brick fr	agments from 25 to 3	0 feet.		neet of 2
_	27ft	Rock	: 10ft								<b>'</b>	O1
arth: 3	) / IL		o. of									

spectonginee	or: Ch	nt Roe				Cc	nne	cticu	ıt DOT Boriı	ng Report	Hole No.: F	RW-101-2	
	OI. OII	ris Lane	)		Т	own:		Stam	ford			108+11.2/52.3 L	Т
art Da	er: Ge	oDesigr	n, Ir	IC.	Pı	roject N	No.:	135-3	801; 135-326		Northing: 5	579196.3	
	ate: 7-1	1-14			R	oute N	o.:				Easting: 7	781993.49	
nish D	Date: 7-1	4-14			Ві	ridge N	lo.:				Surface Elevation: 45.3		
oject	Descript	ion: Re	cor	structio	n o	f Atlar	ntic St	treet a	and Replacem	ent of Metro-Nor	th Railroad Brid	lge No. 8012R	
asing	Size/Typ	e: HW	4"		Sa	ampler	Туре	/Size:	SS 1-3/8 " I.[	D.	Core Barrel Typ	pe: NQ	
ımme	er Wt.: 30	00 lb. F	all:	24in.	H	ammeı	r Wt.:	140 lk	o. Fall: 30 in.				
ound	water Ob	oservatio				bserve	ed		T	I			
			5	SAMPLE	ES				p <sub>0</sub> u				
Depth (ft)	Sample Type/No.		Sam	rs on apler anches		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	aterial Description and Notes	on	
30	S-12	53	78	63 8	5	24	14		Stratified Sand and Gravel	Very dense, Wea	thered Rock		—1 —1 —
35—	S-13	27	36	51 100	)/1"	19	12			Very dense, brow trace silt	n C-F SAND, som	e c-f gravel,	_ 1 
40—	C-1					60	53	8		GNEISS	Slightly Weathered	d, black fine,	
-										[Core Times (min.	/it.j. +, U, 4, U, 4]		-5 -
- - 45- -	C-2					60	60	20		Very Poor, hard, s GNEISS [Core Times (min	slightly weathered, /ft): 4, 4, 5, 4, 4]	black fine,	-  -  -  -

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

50-

Total Penetration in	NOTES: Wood/brick fragments from 25 to 30 feet.	Sheet
Earth: 37ft Rock: 10ft		2 of 2
No. of No. of		
Soil Samples: 13 Core Runs: 2		SM-001-M REV. 1/0

### FINAL PLANS FOR REVIEW

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:

J. IVES
CHECKED BY:
D. COSTELLO

DEPARTMENT OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-11.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2 STAMFORD
RAWING TITLE:

135-301

DRAWING NO.

BOR-11

SHEET NO.

01.09.011

**--5** 

-10

RETAINING WALL 101 BORING LOGS - 2

Driller:	Pe	ete LaBossiere	Co	onne	cticu	ıt DOT Boriı	ng Report	Hole No.:	RW-102-1	
Inspect	tor: Ch	nris Lane	Town:		Stam	ford		Stat./Offset:	412+80.8/44.4 L	Т
Engine	er: Ge	eoDesign, Inc.	Project	No.:	135-3	301; 135-326		Northing:	579381.85	
Start D	ate: 7-	14-14	Route N	lo.:				Easting:	782424.2	
Finish	Date: 7-	15-14	Bridge N	No.:				Surface Elev	ation: 42.1	
Project	Descrip	tion: Reconstruction	of Atla	ntic S	treet a	and Replacem	ent of Metro-Nort	th Railroad B	ridge No. 8012R	
Casing	Size/Ty	pe: HW 4"	Sample	r Type	/Size:	SS 1-3/8 " I.E	).	Core Barrel T	ype:	
Hamme	er Wt.: 3	300 lb. Fall: 24in.	Hamme	r Wt.:	140 II	b. Fall: 30 in.				
Ground	dwater C	bservations: @None	observ	ed						
		SAMPLES	S			<b>7</b> 0 _				f.)
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	iterial Descrip and Notes	otion	Elevation (ft)
30-	S-12	15 22 47 26	24	9		Stratified Sand & Gravel	Very dense, browi trace silt	n/gray C-F GRA	AVEL, little c-f sand,	_
_	S-13	38 78 100/5"	17	12			Very dense, browi trace silt	n/gray C-F GR <i>A</i>	AVEL, little c-f sand,	— 10 —
35-	S-14	80 100/5"	11	7			Very dense, browi	n C-F SAND an	d GRAVEL, trace	

Weathered

No Recovery

**END OF BORING 40ft** 

Bedrock

0

0

\_\_\_\_\_\_ 100/0"

45-

50-

55-

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in	NOTES: Casing shoe damaged at 20 feet, possible metal fragments in sample 9.	Sheet
Earth: 37.5ft Rock: 0ft	Casing failed at 22 feet and had to off-set 3 feet and drill back down to 22 feet.	2 of 2
No. of No. of Soil Samples: 15 Core Runs: 0		SM-001-M REV. 1/0
l e e e e e e e e e e e e e e e e e e e		

### FINAL PLANS FOR REVIEW

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-12.dgn

SM-001-M REV. 1/02

REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2

STAMFORD

AWING TITLE:

RETAINING WALL 102

**BORING LOGS - 1** 

DRAWING NO.

BOR-12

SHEET NO.

01.09.012

-10

Border Version: 11/14/08

Soil Samples: 15 Core Runs: 0

Driller:	Т	rent Ro	е			Co	onne	cticu	ıt DOT Borir	ng Report	Hole No.:	RW-10	02-2	
Inspect	or: C	Chris Lar	ne			Town:		Stam	ford		Stat./Offset:	414+1	0.9/42.7 L	_T
Engine	er: C	GeoDesi	gn, Ir	nc.		Project	No.:	135-3	301; 135-326		Northing:	57944	0.58	
Start Da	ate: 7	'-15-14				Route N	lo.:				Easting:	78254	0.26	
Finish [	Date: 7	'-16-14				Bridge N	No.:				Surface Elev	ation: 4	0.0	
Project	Descr	iption: F	Recor	nstrud	ction	of Atla	ntic S	treet a	and Replaceme	ent of Metro-Nort	h Railroad B	ridge N	o. 8012R	
		ype: HV		0.41					SS 1-3/8 " I.D	).	Core Barrel T	Гуре:		
		300 lb.						140 lk	o. Fall: 30 in.					
Ground	lwater	Observat					ed							
				SAMF	LES				ed e					(ft)
(ft)	e e		Blov	vs on		(in.)	(in.)	%	Generalized Strata Description	Ma	terial Descrip	otion		Elevation (ft)
Depth (ft)	Sample Type/No.			npler				QD 6	ner ata scri		and Notes			vat
De	Sa	5   p	er 6	inche	es	Pen.	Rec.	RG	Ge Str De					Ele
0									Pavement					40
_									Structure					_
_	S-1	14	17	19	18	24	15		Miscellaneous Fill	Dense, brown C-F	SAND and GF	RAVEL, tr	ace silt	_
_	S-2	5	5	8	6	24	7			Medium dense, brotrace silt	own C-F SAND	), some c	:-f Gravel,	_
5—	S-3	9	20	18	15	24	5			Dense, brown C-F	SAND, little f	gravel, tra	ace silt	<b>−35</b> −
_	S-4	13	11	10	6	24	10			Medium dense, brotrace silt	own C-F SAND	), little f g	ravel,	_
10-	S-5	32	61	34	16	24	3			Very dense, browr sand	C-F GRAVEL	, trace sil	lt, trace f	-30
	S-6	18	12	9	8	24	0			No Recovery				
4.5	S-7	9	6	5	3	24	7			Medium dense, brotrace silt	own C-F SAND	), little c-f	gravel,	_ _ 25
15 <del></del> -	S-8	11	5	6	20	24	0			No Recovery				_
	S-9	18	13	14	18	24	9			Medium dense, gralittle silt	een C-F SAND	, little c-f	gravel,	
20														_20
_	S-10	11	20	20	27	24	7			Medium dense, brogravel, little silt	own/green C-F	SAND, I	ittle c-f	_
_	S-11	12	10	15	14	24	9			Medium dense, brogravel, little silt	own/green C-F	SAND, I	ittle c-f	_
25														15
_	S-12	8	7	6	22	24	12			Medium dense, brosand, trace silt, tra	•		L, little c-f	
_														_
_									Gravel					_
30														10
		•	•	•		•				disturbed Piston %, Some = 20 -				
Total P	enetra				<b>.</b>	NOTE		- /0, 1		,5, 551115 26			She	et
Earth: 4			· 1∩ <del>f</del> ŧ	<del> </del>									1 of	
No. of	10.011		o. of	•										
	moles.	15 C		uns: '	2								SM-001-M F	RFV 1/02

riller:	Tre	nt Roe			Co	onne	cticu	ıt DOT Bori	ng Report	Hole No.:	RW-102-2	
nspect	or: Chi	ris Lane		Т	own:		Stam	ford		Stat./Offset:	414+10.9/42.7	LT
ngine	er: Ge	oDesign, Ir	nc.	Р	roject	No.:	135-3	301; 135-326		Northing:	579440.58	
start Da	ate: 7-1	5-14		R	oute N	lo.:				Easting:	782540.26	
inish [	Date: 7-1	6-14		В	ridge N	No.:				Surface Elev	ation: 40.0	
roject	Descript	ion: Recor	nstruc	ction o	f Atlaı	ntic St	treet a	and Replacen	nent of Metro-No	rth Railroad B	ridge No. 8012R	
asing	Size/Typ	e: HW 4"		S	ample	r Type	/Size:	SS 1-3/8 " I.	D.	Core Barrel T	 - vpe:	
		00 lb. Fall:	24in.		-			o. Fall: 30 in			71	
round	water Ob	servations:	@N	one o	bserv	ed						
			SAMF					_				
Depth (ft)	Sample Type/No.		vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	N	laterial Descrip and Notes	otion	Elevation (#)
30-	S-13	10 33	47	73	24	12		Gravel (con't)	Very dense, C-F	GRAVEL, little o	-f sand, trace silt	— 10 — —
35	S-14	80 100/4	"		10	6			Very dense, C-F	GRAVEL, little o	-f sand, trace silt	_ 5 
40-	S-15	19 24	29	22	24	12			Very dense, C-F	GRAVEL, little c	-f sand, trace silt	- - -0 -
45-	C-1				60	45	68	Bedrock	grained GNEISS	rd, Slightly Weath 3 n/ft): 4, 5, 5, 4, 2]		_ 
50-	C-2				60	36	30		grained GNEISS	ord, Slightly Weat () n/ft): 5, 3, 2, 1, 3]		_ 1 -
55—									END OF BORIN	G 53.3ft		 - 1
60		-	-		-				ndisturbed Pisto			-2
	F	Proportions	Use	d: Tr			)%,	Little = 10 - 20	0%, Some = 20	- 35%, And	= 35 - 50%	
	enetratio 43.3ft	n in Rock: 10ft			NOTE	S:					She 2 of	
o. of		No. of										

STATE OF CONNECTICUT

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-13.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

SIGNATURE/ BLOCK:

STAMFORD

DRAWING NO.

BOR-13

SHEET NO.

01.09.013

RETAINING WALL 102 BORING LOGS - 2

Driller:	Pe	te LaB	ossie	ere		Co	onne	cticu	ıt DOT Borir	ng Report Hole No.: RW-102-3	
Inspect	or: Ch	ris Lar	ne			Town:		Stam	ford	Stat./Offset: 415+41.8/43.9 L	_T
Engine	er: Ge	oDesi	gn, Ir	nc.		Project	No.:	135-3	301; 135-326	Northing: 579506.02	
Start D	ate: 7-1	5-14				Route N	lo.:			Easting: 782653.91	
Finish [	Date: 7-1	8-14				Bridge N	No.:			Surface Elevation: 37.6	
Project	Descript	tion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replaceme	ent of Metro-North Railroad Bridge No. 8012R	
Casing	Size/Typ	oe: HW	/ 4"			Sample	r Type	/Size:	SS 1-3/8 " I.D	Core Barrel Type:	
Hamme	er Wt.: 3	00 lb.	Fall:	24in		Hamme	r Wt.:	140 II	b. Fall: 30 in.		
Ground	lwater Ob	bservat					ed				
				SAMF	PLES	<u> </u>			Pe u		(#)
(#)	⊕ <mark>.</mark>		Blow	vs on		(in.)	(in.)	%	Generalized Strata Description	Material Description	
Depth (ft)	mpl N>c		San	npler					nera ata scri	and Notes	Elevation
De	Sample Type/No.	р	er 6	inche	es	Pen.	Rec.	RQD	Ge Str		Ee
0-									Pavement		
_									Structure		
_	S-1	19	16	14	29	24	15		Miscellaneous Fill	Dense, brown C-F SAND, little c-f gravel, trace silt	_35
_	S-2	100/2	"			2	0			No recovery	
5-	0.0		00	04	40	0.4	4.4			Medium dense, brown/green C-F SAND, little f	_
	S-3	20	22	21	16	24	14			gravel, little silt	_
	S-4	9	7	8	8	24	12			Medium dense, brown/green C-F SAND, little c-f gravel, little silt	_30 _
10-	S-5	4	6	11	17	24	7			Medium dense, brown/green C-F SAND, little f gravel, little silt	
	S-6	12	13	17	15	24	15			Medium dense, brown C-F SAND, little f gravel, trace silt	_ 25
15—	S-7	10	4	5	5	24	7			Loose, brown C-F SAND, little f gravel, trace silt	
_		_									
_	S-8	10	6	4	6	24	8			Medium dense, brown C-F SAND, little c-f gravel, trace silt	20 
20-	S-9	23	13	15	12	24	12			Medium dense, brown C-F SAND, some c-f gravel, trace silt	
_											—15 —
25— —	S-10	16	5	5	5	24	0			No recovery	
	S-11	7	2	3	14	24	2			Loose, brown C-F GRAVEL, little c-f sand, trace silt	10 
30											
30-		•	•	•						disturbed Piston V = Vane Shear Test %, Some = 20 - 35%, And = 35 - 50%	
Total P	enetratio	•				NOTE	S:			She	et
Earth:		Rock:	Oft			Roller	bit used	on inferi	red boulder from 41 to	1 of	
No. of		No	o. of		_						
Soil Sa	mples: 1	6 C	ore R	uns: (	0					SM-001-M F	REV. 1/02

nspec	tor: Ch	ris Lane	Town:		Stamford	Stat./Offset: 415+41.8/	43.9 LT
Engine	er: Ge	oDesign, Inc.	Project	No.:	135-301; 135-326	Northing: 579506.02	2
Start D	ate: 7-1	15-14	Route N	lo.:		Easting: 782653.91	
	Date: 7-1		Bridge 1			Surface Elevation: 37.6	
Project	t Descript	tion: Reconstructio	n of Atla	ntic S	treet and Replacem	ent of Metro-North Railroad Bridge No. 80	012R
Casing	յ Size/Tyլ	oe: HW 4"	Sample	r Type	/Size: SS 1-3/8 " I.[	Core Barrel Type:	
lamm	er Wt.: 3	00 lb. Fall: 24in.	Hamme	r Wt.:	140 lb. Fall: 30 in.		
Ground	dwater O	bservations: @Non	e observ	ed			
		SAMPLE	ES	T	و ح		(#)
(#)	0.0	Blows on	(in.)	(in.)	RQD % Generalized Strata Description	Material Description	
th (	lple e/N	Sampler		: ( <u>;</u>	5 % neral lta crip	and Notes	Flevation
Depth (ft)	Sample Type/No.	per 6 inches	Pen.	Rec.	RQD Gene Strata Desc		<u> </u>
<u> </u>					Е 000		
30 -	S-12	100/5"	5	5	Stratified Sand and	Very dense, C-F GRAVEL, little c-f sand, trace	silt
_					Gravel		-
_							-5
							_
35-							_
_	S-13	30 22 23 28	8 24	17		Dense, brown/green C-F SAND, little c-f gravel	l, little –
_				''		silt	_
_							-0
_							_
40-		-					
_	S-14	46 55 100	18	13		Very dense, green C-F GRAVEL, some c-f san trace silt	id,
_		_					_
_							<del></del> -5
_	_						_
45-	0.45	00 400	40			Very dense, green C-F GRAVEL, some c-f san	ıd,
_	S-15	83 100	12	8		trace silt	
_							
_							-10
_					Bedrock		
50 —	∖ S-16	100/1"	1	1		Very dense GRAVEL (Weathered Rock)	
_						END OF BORING 50.1ft	
_	-						-15
_	+						1.
_	-						
55 –	1						
_	1						
_							20
_							
_	1						
60 –	I	Sample Type: S -	= Split Sr		C = Core IID - IIr	ndieturhed Dieton V = Vano Shoar Tost	
		• • •				ndisturbed Piston V = Vane Shear Test %, Some = 20 - 35%, And = 35 - 50%	
'a4-1 P		·	NOTE		770, LILLIE – 10 - 20	70, JUINE - 20 - 33 /0, AND - 35 - 30 %	Ob4
	Penetratio				on inferred boulder from 41 to	o 43 feet.	Sheet 2 of 2
orth:	50ft	Rock: Oft					_

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-14.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

SIGNATURE/ BLOCK:

**STAMFORD** RETAINING WALL 102 BORING LOGS - 3

135-301 **BOR-14** 01.09.014

Driller:		ent Ro					onne		ut DOT Borin	ng Report		RW-102-4	<b>-</b>
Inspect		ris Laı				Town:	N.I.	Stam				416+80.8/45.4 L	I
Engine		<u>oDesi</u>	gn, Ir	nc.		Project		135-3	301; 135-326			579575.21	
	ate: 7-1					Route N						782773.2	
	Date: 7 <b>-</b> 2				· · · · · · · · · · · · · · · · · · ·	Bridge N					Surface Eleva		
Project	Descript	ion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replaceme	ent of Metro-No	orth Railroad Bri	dge No. 8012R	
	Size/Typ er Wt.: 30			24in		•			SS 1-3/8 " I.D b. Fall: 30 in.	).	Core Barrel Ty	rpe:	
Ground	dwater Ob	oserva	tions:	@N	lone	observ	ed						
			5	SAM	PLES				_ o _				(ff)
Depth (ft)	Sample Type/No.	þ		vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	laterial Descript and Notes	ion	Elevation (1
0-									12"				
_ _ _	S-1	44	20	14	13	24	19		Pavement Structure Miscellaneous Fill	Dense, brown C	c-F SAND, little c-f	gravel, trace silt	_
_	S-2	4	4	4	15	24	13			Loose, green C-	F SAND, little silt,	trace f gravel	_30 _
5— –	S-3	9	8	6	11	24	8			Medium dense, GRAVEL, little s	brown/green C-F S silt	SAND and	_
_	S-4	12	16	12	8	24	9			Medium dense, c-f sand, little sil	brown/green C-F ( It	SRAVEL, some	_ 25
10-	S-5	12	16	17	13	24	7			Dense, brown/g	reen C-F SAND an	d GRAVEL, little	
_ _	S-6	12	100			12	7			Very dense, C-F weathered rock	SAND, some f gra at tip	avel, little silt,	
_													_ 20
15— - -	S-7	24	10	10	25	24	12			Medium dense, trace silt	green C-F GRAVE	L and SAND,	_
_													_ 15
20— — —	S-8	20	10	11	13	24	12			Medium dense, little silt	brown C-F SAND,	some c-f gravel,	_
_													_ 10
25— –	S-9	20	20	14	9	24	7				c-F GRAVEL and Cace brick fragments		
- -	S-10	99	56	67	85	24	14		Stratified Sand & Gravel	Very dense, bro little silt	wn/green C-F SAN	ID and GRAVEL,	_ _5
30-		•	•	•							on V = Vane Sh ) - 35%, And =		_
Earth:	enetratio 44.1ft	Rock					d boulde		to 13.5 feet. Refusal at at 18 feet, put 3 feet o	: 15 feet. Drilled out an	nd moved 3 feet east	Shee 1 of	
No. of Soil Sa	ımples: 1		o. of ore R	uns:	0							SM-001-M R	EV. 1/02

riller: spect		ent Roe ıris Lane	Town:		Stam	<b>it DOT Bori</b> ford		Hole No.: RW-102-4 Stat./Offset: 416+80.8/45.4	LT
ngine		eoDesign, Inc.	Project	No.:		301; 135-326		Northing: 579575.21	
	ate: 7-1		Route N			,		Easting: 782773.2	
	Date: 7-2		Bridge N					Surface Elevation: 33.7	
oject	Descrip	tion: Reconstructio			treet a	and Replacem	ent of Metro-No	rth Railroad Bridge No. 8012F	₹
asing	Size/Ty	pe: HW 4"	Sample	r Type	e/Size:	SS 1-3/8 " I.I	D.	Core Barrel Type:	
			Hamme	r Wt.:	140 II	b. Fall: 30 in.		<u> </u>	
ounc	dwater O	bservations: @None	e observ	ed					
		SAMPLE	S	T	T	ק ב			(8)
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	М	aterial Description and Notes	į
30 — - -	S-11	66 45 100/5"	17	11		Stratified Sand & Gravel (con't)	Very dense, brow sand, trace silt	vn/green C-F GRAVEL, some c-f	
_ _							Manual dan ara anno	O E ODAVEI	_ 0
35—	S-12	100/3"	3	2			Very dense, gree	en C-F GRAVEL	_
40— -	S-13	100/1"	1	0			No Recovery		<b>!</b>
- - -	S-14	<u></u>	1	0			No Recovery		
45— — —							END OF BORING	ڪ 44.1π	
50-									<b>-</b>
- -									
55 — — —	-								
60-		Sample Type: S-	- Calit Ca	2002	C = 0	Coro LID - LI	adjeturbod Dietor	n V – Vana Shaar Taat	
			•					n V = Vane Shear Test - 35%, And = 35 - 50%	
	enetratio	on in Rock: 0ft		d boulde		o 13.5 feet. Refusal a at 18 feet, put 3 feet	at 15 feet. Drilled out and casing down.	l	eet of 2

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION

SHEET NO. Plotted Date: 3/24/2016

SIGNATURE/ BLOCK:

Filename: ...\SB\_MSH\_0135\_0301\_BOR-15.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 **BOR-15** 

01.09.015

RETAINING WALL 102 BORING LOGS - 4

REV. DATE

riller:	Ma	ark D'A	mbro	osia		Co	onne	cticu	ıt DOT Borir	ng Report		RW-102-5	
spect	or: Ch	ıris Laı	ne		Т	own:		Stam	ford		Stat./Offset:	517+81.1/45.0 L	Τ.
ngine	er: Ge	eoDesi	gn, Ir	nc.	F	Project	No.:	135-3	301; 135-326		Northing:	579655.02	
tart Da	ate: 7-2	21-14			F	Route N	lo.:				Easting:	782920.43	
nish [	Date: 7-2	22-14			E	Bridge N	No.:				Surface Eleva	tion: 29.8	
roject	Descrip	tion: F	Recor	nstru	ction o	of Atlai	ntic S	treet a	and Replaceme	ent of Metro-Nort	th Railroad Bri	dge No. 8012R	
asina	Size/Ty	pe: HV	V 4"		S	Sample	r Type	/Size:	SS 1-3/8 " I.D	) <u>.</u>	Core Barrel Ty	/pe:	
	er Wt.: 3	-		24in			• • •		b. Fall: 30 in.	<u> </u>		Per	
	lwater O										<u> </u>		
					PLES								
	_								Generalized Strata Description				(a) = 1
Depth (ft)	Sample Type/No.			vs on		(in.)	(in.)	%	ralii a	Ma	terial Descript	ion	
eptk	/ed.			npler		Pen.	Rec.	RQD	ene rata		and Notes		
De	Sa Ty		er 6	IIICHE	35	Pe	&	X	S T S				į
0									12"				
_	S-1	78	40	33	29	24	16		Pavement Structure Miscellaneous	Very dense, gray silt	C-F GRAVEL, litt	tle c-f sand, trace	
_	S-2	30	30	27	24	24	10		Fill	Very dense, gray/ sand, trace silt	brown C-F GRA\	/EL, some c-f	
5	S-3		0.4	70	07	0.4	4.4			Very dense, gray	C-F SAND, some	e c-f sand, trace	_2
	3-3	59	31	78	27	24	14			silt			
	S-4	<u> </u> 100/1				1	0			No Recovery			
4.0													_2
10 —	S-5	11	9	8	7	24	12			Medium dense, br trace silt	rown C-F SAND,	some c-f gravel,	_
	S-6	4	4	3	6	24	12			Loose, brown C-F	SAND, little c-f o	gravel, trace silt	
15—	S-7	8	9	10	10	24	10			Medium dense, C	-F SAND, some o	c-f gravel, little silt	<u> </u>
_	S-8	11	14	9	6	24	5			Medium dense, br trace silt	own C-F SAND a	and GRAVEL,	
20-													-  10
_	S-9	14	7	6	7	24	9			Medium dense, br gravel	own C-F SAND,	little silt, little f	
_	S-10	38	100/5	"		11	5			Very dense, CON	CRETE and ASP	PHALT	
25—													<u>-</u> 5
_	S-11	8	15	9	12	24	14			Very stiff, dark bro (organic)	own CLAYEY SIL	.T, little c-f gravel	_
30													_n
30 ─		•	•	•						disturbed Piston %, Some = 20 -			_
tal P	enetratio		1 110118		u. I	NOTE	S:		oulder at 9 feet , roller		- 55 /0, AHU -	Shee	-
rth:	55.3ft	Rock	: Oft			Clayey		at) from 2	27 to 30 feet.	<del></del>		1 of	_
. of	_	N 18 C	o. of		0		,	00				SM-001-M R	. ===

Driller: Inspect		ark D'A ris Lar		osia		Co Town:	onne	<b>ctic</b> u Stam	<b>ıt DOT Bori</b> ı ford	ng Report		102-5 ·81.1/45.0 L	_T
Engined Start Da		eoDesiç 21-14		nc.		Project Route N Bridge I	lo.:	135-3	301; 135-326		+	20.43 29.8	
Project	Descript	tion: R	Recor	nstru	ction	of Atla	ntic S	treet	and Replacem	ent of Metro-No	rth Railroad Bridge I	No. 8012R	
	Size/Typ er Wt.: 3			24in					SS 1-3/8 " I.[ b. Fall: 30 in.		Core Barrel Type:		
Ground	lwater Ol	bservat	ions:	@N	lone	observ	ed						
		T		SAM	PLES	3		1	و ح				<b>4</b>
Depth (ft)	Sample Type/No.	р	San	vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	М	aterial Description and Notes		
30-	S-12	8	29	37	44	24	8		Stratified Sand & Gravel	Very dense, gray sand	C-F GRAVEL, little silt	, little c-f	
_	S-13	20	23	29	30	24	12			Very dense, gra	y/brown C-F SAND, trad	ce silt	_
35—	S-14	16	18	21	20	24	13			Dense, brown/gr	ay F SAND, trace silt		
40-	S-15	31	37	47	60	24	16			Very dense, gray silt	· C-F SAND, some c-f g	ravel, trace	-  1  -  -
45 - -	S-16	31 ·	100/5	ju		11	8			Very dense, brow trace silt	vn C-F GRAVEL, little c	-f sand,	-  1  -
50-	S-17	51	40	81	62	24	14		Weathered Bedrock	Very dense, gray rock, little c-f sar	v/brown C-F GRAVEL, w nd, trace silt	veathered	- - 2
55— — — —	<sub>\</sub> S-18	100/4	"			4	3			Very dense, brov	vn C-F GRAVEL (weath G 55.3ft	ered rock)	2
60		•	•	•							n V = Vane Shear <sup>-</sup> - 35%, And = 35 -		3
Total Position	enetratio	n in Rock:				NOTE Encou Clayey	S: Intered in	nferred b	oulder at 9 feet , rolle 27 to 30 feet.	·		She 2 of	

STATE OF CONNECTICUT SIGNATURE/ BLOCK: THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-16.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 **BOR-16** 01.09.016

RETAINING WALL 102 BORING LOGS - 5

Driller:	Pet	te LaE	Rossie	ere		Co	onne	cticu	ıt DOT Borir	na Report	Hole No.:	RW-102-6	
Inspect		ris Lar		0.0	T	own:		Stam			Stat./Offset:	519+29.2/46.1 L	Т
Engine		oDesi		nc.		roject l			301; 135-326		Northing:	579727.05	- <b>·</b>
	ate: 7-2		9,	10.		oute N		100 0	701, 100 020		Easting:	783051.05	
	Date: 7-2					ridge N					Surface Elev		
			Recor	netru				treet s	and Renlacem	ent of Metro-Nor		ridge No. 8012R	
	· ·			istiu					•				
	Size/Typ								SS 1-3/8 " I.D	).	Core Barrel T	ype:	
	er Wt.: 30							140 II	b. Fall: 30 in.				
Ground	lwater Ot	serva				bserv	ed		1				
				SAMI	PLES				pe u				(ft)
(#)	Ф. О		Blow	vs on	1	(in.)	(in.)	%	Generalized Strata Description	Ma	aterial Descrip	otion	Elevation (ft)
Depth (ft)	Sample Type/No.			npler		. (i			nera ata scri		and Notes		vati
Эер	Sar Typ	p	er 6	inche	es	Pen.	Rec.	RQD	Ger Stra Des				
	071						-	<b></b>					
_									Pavement Structure				
	S-1	60	39	52	100/3"	21	12		Miscellaneous	Very dense, black	k/green C-F GRA	AVEL and	0.5
				0_					Fill	ASPHALT			<del>-25</del>
	S-2	57	25	27	24	24	14			Very dense, brow			
5—	0-2	37	25	21	<b>4</b>	24	14			ASPHALT, little c	-f sand, trace sil	t	
5-	S-3	10	11	15	16	24	9			Medium dense, gi	reen/brown C-F	SAND, some c-f	
	3-3	10	14	15	16	24	9			gravel, trace silt			
_	0.4	00	00	4.4	4.4		_			Danca brown C		AN/EL trace cilt	-20
	S-4	33	20	11	11	24	7			Dense, brown C-F	- SAND and GR	AVEL, trace siit	_
-	0.5									Dense, brown/gre	en C-F SAND a	nd GRAVEL, trace	
10—	S-5	20	22	25	25	24	13			silt		,	
_				_						Medium dense, gi	reen/brown C-F	SAND. little c-f	
_	S-6	20	13	9	27	24	16			gravel, little silt		,	<del>-</del> 15
_													
15—		_		_	_					Medium dense, bi	rown C-F SAND	. some c-f gravel.	
_	S-7	9	8	7	6	24	13			little silt		,	_
_													<del>-10</del>
_													_
_													_
20 —													_
_	S-8	14	5	2	3	24	0			No recovery			
_													-5
_	S-9	3	4	4	5	24	7			Loose, black SILT	, some c-f grave	el, trace brick	_
_													_
25—										Madium danaa bl	look CILT some	of and trace	_
_	S-10	8	6	4	6	24	6			Medium dense, bl gravel, trace glass		o-i sanu, trace	
_									Stratified				-0
_	S-11	9	17	18	49	24			Sand &	Dense, green C-F	SAND, little f g	ravel, trace silt	_
_									Gravel				
30 —													
		Samp	le Ty	pe:	S = S	plit Sp	oon	C = C	Core UP = Un	ndisturbed Piston	V = Vane S	Shear Test	
	F	Propo	rtions	s Use	ed: Tr	ace =	1 - 10	0%, I	Little = 10 - 20	%, Some = 20 -	- 35%, And =	= 35 - 50%	
Total P	enetratio	n in				NOTE:		oonerst-	Istool in Commis 2 (2)	to 5 foot) multiple	foot and restarts -	She	
Earth:	52ft	Rock	: Oft			2. Orga	anics in	cuttings	at 20 to 24 feet.	to 5 feet), pulled up at 5 f		1 of	2
No. of			o. of			⊣ვ. Cas	ıng snap	ped at 2	to 25 feet, pulled ou	ut and set casing down to	0 ∠/ Teet.		

riller:		e LaB		ere		Co			ıt DOT Bori	ng keport	Hole No.: RW-102-6	
spect		ris Lar			T	own:		Stam	ford		Stat./Offset: 519+29.2/46.1	I LT
ngine		oDesi	gn, In	IC.	P	roject l	No.:	135-3	301; 135-326		Northing: 579727.05	
	ate: 7-2				F	Route N	0.:				Easting: 783051.05	
	Date: 7-2					ridge N					Surface Elevation: 27.2	
roject	Descript	ion: R	lecon	struc	ction c	of Atlar	ntic St	reet a	and Replacen	nent of Metro-No	orth Railroad Bridge No. 8012	R
asing	Size/Typ	e: HW	/ 4"		S	Sample	Type.	/Size:	SS 1-3/8 " I.	D.	Core Barrel Type:	
amme	er Wt.: 30	00 lb.	Fall:	24in	. ⊢	lamme	r Wt.:	140 II	o. Fall: 30 in	•		
round	lwater Ob	servat	ions:	@N	lone c	bserv	ed		T			
-			S	SAMF	PLES				ي ر			<b>4</b>
Depth (ft)	Sample Type/No.		Blow Sam er 6 i	pler		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	N	laterial Description and Notes	
30-	S-12	46	86	75	100	24	17		Stratified Sand & Gravel (con't)	Very dense, gre trace silt	en C-F GRAVEL, little c-f sand,	
35—	S-13	44 ^	100/3'	1		9	6			Very dense, blac trace sand	ck/green C-F GRAVEL, some silt,	- - - 1
40-	S-14	15	26 ^	100/0	"	12	5			Very dense, gre trace silt	en C-F GRAVEL, some c-f sand,	_ _ _ _ 1
45	S-15	6	10	13	18	24	7			Medium dense, silt	green C-F GRAVELand SAND, little	e - - 2
50-	S-16	5	15	20	22	24	9			Dense, green Casilt  END OF BORIN	-F GRAVEL, some c-f sand, trace	- - - - 2
55— —												_ _ _ 3
60		-		-							on V = Vane Shear Test 0 - 35%, And = 35 - 50%	
otal D		•			<u>σ.</u> ΙΙ			. , 0 , 1				heet
		Propor		-		ace =	1 - 10 S: nferred o	)%,	Little = 10 - 20		0 - 35%, And = 35 - 50%	heet of 2

SM-001-M REV. 1/02

**BOR-17** 

01.09.017

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

No. of No. of Soil Samples: 16 Core Runs: 0

**STAMFORD** 

**RETAINING WALL 102 BORING LOGS - 6** 

Filename: ...\SB\_MSH\_0135\_0301\_BOR-17.dgn

SM-001-M REV. 1/02

REV. DATE

No. of No. of Soil Samples: 16 Core Runs: 0

SHEET NO. Plotted Date: 3/24/2016

REVISION DESCRIPTION

SHEET NO. Plotted Date: 3/24/2016

**Connecticut DOT Boring Report** 

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Pavement

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS 1-3/8 " I.D.

Hammer Wt.: 140 lb. Fall: 30 in.

RQD

Rec. (in.)

Town:

Route No.:

Bridge No.:

RW-102-7

579798.55

783202.58

Elevation (ft)

-20

-15

-10

Sheet

1 of 3

SM-001-M REV. 1/02

Filename: ...\SB\_MSH\_0135\_0301\_BOR-18.dgn

Stat./Offset: 520+87.7/46.8 LT

Surface Elevation: 26.4

Core Barrel Type:

**Material Description** 

and Notes

Hole No.:

Northing:

Easting:

Mark D'Ambrosia

Chris Lane

Engineer: GeoDesign, Inc.

Start Date: 7-23-14

Finish Date: 7-24-14

Casing Size/Type: HW 4"

Hammer Wt.: 300 lb. Fall: 24in.

Groundwater Observations: @None observed

SAMPLES

Blows on

Sampler

per 6 inches

riller:	М	ark D'/	\mbr	osia		Co	onne	cticu	t DOT Boring R	eport Hole No.: RW-102-7
spect	or: C	hris La	ne		Т	own:		Stam	ford	Stat./Offset: 520+87.7/46.8 LT
ngine	er: G	eoDes	ign, l	nc.	F	roject	No.:	135-3	01; 135-326	Northing: 579798.55
art Da	ate: 7-	23-14			F	Route N	lo.:			Easting: 783202.58
nish [	Date: 7-	24-14			Е	ridge N	No.:			Surface Elevation: 26.4
oject	Descrip	otion:	Reco	nstru	ction o	of Atla	ntic S	treet a	and Replacement o	f Metro-North Railroad Bridge No. 8012R
asing	Size/Ty	/pe: H\	N 4"		S	ample	r Type	/Size:	SS 1-3/8 " I.D.	Core Barrel Type:
amme	er Wt.: 🤅	300 lb.	Fall	: 24in	. F	lamme	r Wt.:	140 II	o. Fall: 30 in.	
round	water C	Observa			lone o	bserv	ed			
$\overline{}$									Generalized Strata Description	
n (ft)	Sample Type/No.			ws on		(in.)	(in.)	%	erali a ripti	Material Description and Notes
Depth	am <sub>l</sub> ype			npler inche		Pen.	Rec.	RQD	ene trati esc	and Notes
	ω F	'				۵	<u>~</u>	<u>~</u>	000	
30 —	S-11	20	25	29	23	24	7			dense, gray C-F GRAVEL, some c-f sand, e silt
-	S-12	18	20	18	18	24	13		Der	se, gray C-F GRAVEL, some c-f sand, trace silt
35—	S-13	19	10	9	9	24	12		l	lium dense, brown C-F GRAVEL, some c-f sand, e silt
40										
_	S-14	14	10	8	8	24	0		No	Recovery
_	S-15	8	5	4	2	24	0		No	Recovery
45										
_	S-16	8	6	5	8	24	7		l l	lium dense, brown C-F GRAVEL, little c-f sand, e silt
-										
50-	S-17	10	12	12	13	24	12		l	lium dense, brown C-F GRAVEL, some c-f sand, e silt
55-	S-18	12	5	6	8	24	12		l	lium dense, brown C-F GRAVEL, some c-f sand,
_										e siit

Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Very thick asphalt (pavement structure). Drilled down to 2 feet.

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO - | - | -\_ | - | -**DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED

Total Penetration in

Rock: 0ft

Soil Samples: 20 Core Runs: 0

No. of

Earth: 67ft

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

FINAL PLANS FOR REVIEW

135-301 **BOR-18** SHEET NO. 01.09.018

**RETAINING WALL 102 BORING LOGS - 7** 

Sheet

2 of 3

SM-001-M REV. 1/02

REV. DATE

REVISION DESCRIPTION

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS 1-3/8 " I.D.

Town:

Route No.:

Bridge No.:

Hammer Wt.: 300 lb. Fall: 24in. Hammer Wt.: 140 lb. Fall: 30 in.

SAMPLES

RW-102-7

579798.55

783202.58

Elevation (ft)

-40

-45

-50

-60

Sheet

3 of 3

SM-001-M REV. 1/02

Stat./Offset: 520+87.7/46.8 LT

Surface Elevation: 26.4

Core Barrel Type:

Hole No.:

Northing:

Easting:

Mark D'Ambrosia

Groundwater Observations: @None observed

Inspector: Chris Lane

Start Date: 7-23-14

Finish Date: 7-24-14

Casing Size/Type: HW 4"

Engineer: GeoDesign, Inc.

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-19.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

FINAL PLANS FOR REVIEW

**RETAINING WALL 102 BORING LOGS - 8** 

135-301

**BOR-19** 

01.09.019

REV. DATE

Driller:	Tre	ent Ro	е			Co	onne	cticu	ut DOT Borin	ng Report	Hole No.:	RW-103-1	
Inspect	or: Bri	ian Ca	ntor			Town:		Stam	nford		Stat./Offset:	506+72.6/5.4 LT	-
Engine	er: Ge	eoDesi	gn, Ir	nc.		Project	No.:	135-3	301; 135-326		Northing:	579117.34	
Start D	ate: 6-3	30-14				Route N	lo.:				Easting:	781954.95	
Finish [	Date: 6-3	30-14				Bridge I	No.:				Surface Elev	vation: 35.5	
Project	Descrip	tion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replacem	ent of Metro-Nor	th Railroad B	ridge No. 8012R	
Casing	Size/Ty	pe: HV	V 4" I	D		Sample	r Type	/Size:	SS 1-3/8" ID		Core Barrel	Гуре:	
	er Wt.: 3							140 I	b. Fall: 30 in.				
Ground	lwater O	bserva <sup>-</sup>					/ed						
				SAIVII	PLES	<b>&gt;</b>			eq u				(ft)
(ft)	e		Blov	vs on	1	(in.)	(in.)	%	Generalized Strata Description	Ma	aterial Descrip	otion	Elevation
Depth (ft)	Sample Type/No.			npler		n. (		1	ner ata scr		and Notes		vat
De	Sa Tyl	þ	er 6	inche	es	Pen.	Rec.	RQD	Ge Str De				
0-									11"				
_	S-1	15	70	27	40/2'	" 20	15		Pavement Structure Stratified	Very Dense, brow trace silt	n, C-F SAND, s	some c-f gravel,	_
	S-2	25	35	35	42	24	18		Sand and Gravel	Very Dense, brow trace silt	n, C-F SAND, s	some c-f gravel,	_
5— _	S-3	29	35	30	41	24	15			Very Dense, brow trace silt	n, C-F SAND a	nd C-F GRAVEL,	-30 -
	S-4	31	68	80	56	24	9			Very Dense, brow trace silt	vn, C-F SAND, s	some c-f gravel,	_
10-	S-5	39	49	58	51	24	12			Very Dense, brow trace silt	n, C-F SAND a	ind C-F GRAVEL,	_ 25
_	S-6	26	20	31	100/5	5" 23	13			Very Dense, brow trace silt	ın, C-F SAND a	nd C-F GRAVEL,	
15— - -	S-7	16	19	14	17	24	12			Dense, brown, C-	F SAND, some	c-f gravel, trace silt	- -20 -
20-	S-8	100/0	11			0	0			No Recovery END OF BORING	G 19ft		_ _ _ _ 15 _
25— -													_ _ _ _ 10
30		•	•	•						ndisturbed Piston %, Some = 20 -			
Total P	enetratio	on in						n sampl	le 1, driller stopped dro	opping hammer at 40/2" o	due to unsafe angle	of She	et
Earth:		Rock	: Oft				lled befo		g set at 4-5' and 11-1			1 of	
No. of			o. of			——3.) Ca	sing bou	ncing at	118.5 feet, Roller bit re	efusal at 19 feet			
Soil Sa	mples: 8	3 C	ore R	uns:	0							SM-001-M F	REV. 1/02

	•				ction		ntic S		•	ent of Metro-North Railroad Bridge No. 8012R	
	Size/Typ er Wt.: 30					-			SS 1-3/8" ID b. Fall: 30 in.	Core Barrel Type:	
round	dwater Ob	oservat		@N SAMF		Observ	ed				
Depth (ft)	Sample Type/No.		San	vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Flavation (#)
0-									11"		25
_	S-1	21	32	30	37	24	12		Pavement Structure Miscellaneous Fill	Very Dense, brown, C-F SAND, some c-f gravel, trace silt, trace brick	
_	S-2	13	11	18	41	24	14		FIII	Dense, brown, C-F SAND, little c-f gravel, trace silt, trace brick and glass	_
5— _	S-3	11	12	20	7	24	12			Dense, brown, C-F SAND, some c-f Gravel, little shells, trace silt, trace brick	<u>-</u> 20
_	S-4	3	4	10	24	24	21		Stratified Sand and Gravel	Medium Dense, brown, C-F SAND, some silt, little c-f Gravel	
10-	S-5	18	46	100/1'	•	13	9		Glavei	Very Dense, brown, C-F SAND, little c-f gravel, trace silt	- 15
15— - - - - 20—											- - - - - - - - - 5
_											<u>-</u>
25— — —											- - - -
_											
30		Samn	ام Tv	(DO:	c – c	holit Ca		C - 4	Coro IID - IIr	disturbed Piston V = Vane Shear Test	-5

STATE OF CONNECTICUT

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-20.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

SIGNATURE/ BLOCK:

STAMFORD

DRAWING NO.

BOR-20

SHEET NO.

01.09.020

RETAINING WALL 103 BORING LOGS

Stamford

Project No.: 135-301; 135-326

Town:

Route No.:

Bridge No.:

RW-104-1

579375.73

782525.46

Stat./Offset: 512+99.7/1.8 RT

Surface Elevation: 13.3

Hole No.:

Northing:

Easting:

Trent Roe

Inspector: Chris Lane

Start Date: 6-18-14

Finish Date: 6-18-14

Engineer: GeoDesign, Inc.

Driller:

riller: nspect		ent Roe ris Lane	-	Town:		Stam	<b>it DOT Borir</b> ford	.a	Hole No.: RW-104-2 Stat./Offset: 514+40.6/2.6 LT	Г
ngine		oDesign, Inc.		Project			301; 135-326		Northing: 579447.18	•
	ate: 6-1			Route N					Easting: 782646.82	
inish [	Date: 6-1	8-14		Bridge <b>N</b>					Surface Elevation: 12.4	
roject	Descrip	ion: Reconst	ruction	of Atla	ntic St	treet a	and Replaceme	ent of Metro-Nor	th Railroad Bridge No. 8012R	
asing	Size/Ty	pe: HW 4"		Sample	r Type	/Size:	SS 1-3/8 " I.D	).	Core Barrel Type:	
		00 lb. Fall: 24		-			o. Fall: 30 in.		7.	
round	water O	oservations: (	26.3 ft	after C	hour	S				
-		SA	MPLES		I	1	ے 10 ح			(#)
(#)	<u>ه</u>	Blows	on	(in.)	(in.)	.0	Generalized Strata Description	Ma	aterial Description	
oth (	nple e/N	Sampl			; <u>;</u>	% Q	nera ata scrip		and Notes	Tloyotion
Depth	Sample Type/No.	per 6 inc	ches	Pen.	Rec.	RQD	Ger Stra Des			
0							13"			
_		-					Pavement			
-	S-1	33 25 3	30 24	24	17		Structure / Miscellaneous	ailt traaa briak tr	n, C-F SAND and GRAVEL, trace ace wood fragments	<u> </u>
+							Fill		•	
$\dashv$	S-2	17 10 2	20 40	24	7			silt, trace brick	-F GRAVEL, some c-f sand, trace	
5	0.0				4-			Very dense, brow	n, C-F GRAVEL, some c-f sand,	_
	S-3	31 47 4	5 50/4"	22	15			trace silt		
	S-4	49 50/4"		10	7			Dense, brown, W	eathered Rock	-5
10-	S-5	20 21 2	21 50/5"	23	12				rown, C-F SAND, some c-f gravel,	
		50/4"	.1 00/0	4	0		Weathered	trace silt No Recovery		
	S-6	30/4		4			Bedrock	Nortogovory		
4										0
$\dashv$										
15	S-7	50/4"		4	3			Very Dense, brow	vn, Weathered Rock	
-										
										-5
20										_
20	S-8	34 50/0"		6	4			Very Dense, brow END OF BORING	vn, Weathered Rock	_
								LID OF BOILING	20.010	
										-1
25-										
										<u> </u>
30 ─		Sample Type	e: S = S	Split Sr	oon	C = C	Core UP = Un	disturbed Pistor	n V = Vane Shear Test	
				-					- 35%, And = 35 - 50%	
otal Po	enetratic	•		NOTE		-			She	et
	20.5ft	Rock: Oft							1 of	
o. of		No. of								

FINAL PLANS FOR REVIEW

J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016

STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** 

Filename: ...\SB\_MSH\_0135\_0301\_BOR-21.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 **BOR-21** 01.09.021

**RETAINING WALL 104 BORING LOGS** 

THE INFORMATION, INCLUDING ESTIMATED

THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SHEET NO. Plotted Date: 3/24/2016

QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE

**Connecticut DOT Boring Report** 

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS: 1-3/8" ID

Hammer Wt.: 140 lb. Fall: 30 in.

Town:

Route No.:

Bridge No.:

Hole No.:

Northing:

Easting:

**Material Description** 

and Notes

RW-105-1

579089.3

781973.55

Elevation (ft)

STATE OF CONNECTICUT

**DEPARTMENT OF TRANSPORTATION** 

Filename: ...\SB\_MSH\_0135\_0301\_BOR-22.dgn

J. IVES

D. COSTELLO

SCALE AS NOTED

Stat./Offset: 506+80.8/34.1 RT

Surface Elevation: 20.5

Core Barrel Type: NQ

Tim Sabo

Inspector: Brian Cantor

Start Date: 6-24-14

Finish Date: 6-24-14

Engineer: GeoDesign, Inc.

Casing Size/Type: HW-4" ID

Hammer Wt.: 300 lb. Fall: 24in.

Groundwater Observations: @None Observed

Blows on

Sampler

SAMPLES

Driller:

riller:		ent Roe		onne		t DOT Borir		Hole No.: RW-105-2	
specto		ris Lane	Town:		Stam			Stat./Offset: 508+15.1/44.4	RT
nginee		oDesign, Inc.	Project		135-3	301; 135-326		Northing: 579129.95	
	ate: 6-2		Route N					Easting: 782104.74	
	Date: 6-2		Bridge I					Surface Elevation: 18.7	
roject	Descrip	tion: Reconstruction	on of Atla	ntic S	treet a	and Replacem	ent of Metro-North	Railroad Bridge No. 8012l	₹
asing	Size/Ty <sub>l</sub>	pe: HW-4" ID	Sample	r Type	e/Size:	SS: 1-3/8" ID	(	Core Barrel Type: NQ	
amme	er Wt.: 3	00 lb. Fall: 24in.	Hamme	r Wt.:	140 II	b. Fall: 30 in.			
round	water O	bservations: @Nor	ne Observ	/ed					
		SAMPL	ES			_ o _			(£
Œ	o.	Diameter	<u> </u>	<u> </u>		Generalized Strata Description	Mata	orial Description	(#)
Depth (ft)	Sample Type/No.	Blows on Sampler	(in.)	(in.)	% (	era ta Srip		erial Description and Notes	1
epi	am ype	per 6 inches	Pen.	Rec.	RQD	trai			
	ഗ ⊢	•	<u> </u>	MY.	<u> </u>	000			L
0—						2" Pavement			
	0.4		.7	10		Structure (Asphalt)	Very dense, brown,	C-F GRAVEL, some c-f sand,	_
	S-1	20 25 30 3	37 24	16		8" Pavement	trace silt, trace asph	nalt	
	0.0	1				Structure (Concrete)	Medium dense, brow	wn, C-F SAND, little c-f gravel,	<u> </u>
_	S-2	19 15 15 1	7 24	21		Miscellaneous	trace silt		
5	0.0	10 10 01		10		Fill	Dance Weathered	Dook	
	S-3	12 18 21 2	21   24	13		Stratified	Dense, Weathered I	NOCK	_
	S-4	11 20 100/4"	16	9		Sand and		C-F GRAVEL, some c-f sand,	
_		-				Gravel	trace silt		-1
		-				Bedrock			
10							Very Poor Quality F	Hard, Slightly Weathered black,	
	C-1		60	45	0		fine grained GNEISS	S	
							[Core Times (min/ft)	): 3, 3, 3, 4, 2]	
									-5
4.5							END OF BORING 1	4ft	
15—									
									-0
00									
20									_
									-5
25									_
25									
									<u> </u>
20									
30 ─	_	Sample Type: S	= Split Sr	oon	C = C	Core UP=Ur	disturbed Piston	V = Vane Shear Test	
			-					35%, And = 35 - 50%	
otal Da		<u> </u>	NOTE		<b>∵</b> /∪,		70, JOHO - 20 - 0		200t
	enetratic		INOTE	. <b>.</b> .					neet of 1
arth: 9	9tt	Rock: 5ft						·	
o. of	mples: 4	No. of Core Runs: 1						SM-001-N	IRFV '

### FINAL PLANS FOR REVIEW

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 **BOR-22** 

01.09.022

**RETAINING WALL 105 BORING LOGS** 

Border Version: 11/14/08

REVISION DESCRIPTION

REV. DATE

Trent Roe

Inspector: Chris Lane

Engineer: GeoDesign, Inc.

asing amme	Size/Typer Wt.: 30	oe: HW-4" ID Society States St	Sample Hamme after 0	r Type r Wt.:	ent of Metro-North Railroad Bridge  Core Barrel Type:			
Depth (ft)	Sample Type/No.	SAMPLES Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	(#) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C
5-	S-1 S-2 S-3	10 5 7 5 11 12 19 29 37 53 100/5	18 24 ' 23 5	13 17 15 2		5" Pavement Structure (Asphalt) 9" Pavement Structure (Concrete) Miscellaneous Fill Stratified Sand & Gravel	Medium dense, brown, C-F SAND, little trace silt  Medium dense, brown, M-F SAND, little trace silt  Very dense, brown, C-F GRAVEL, som trace silt  Very dense, brown, C-F GRAVEL, trace trace silt	e c-f gravel, — 10 — 10 e c-f sand, —
10-	S-5 S-6	59 100/5" 82 100/1"	11 7	8 5		Weathered Bedrock	Very dense, brown, C-F GRAVEL, little trace silt  Very dense, brown, C-F GRAVEL, little trace silt (Weathered Rock)	_
15— —	S-7 S-8	100/5"	5	2			Very dense, brown gray, C-F GRAVEL, trace silt  No Recovery  END OF BORING 17ft	trace sand,
20 — - - -								- - - - -
25— - - - -								_ _ _ _ _ 
30		. •					disturbed Piston V = Vane Shear %, Some = 20 - 35%, And = 35 -	Test
rth: 1	enetratio 17ft mples: 8	Rock: Oft No. of		to 1.5 fe		o concrete. Roller bit a om 11.5 to 15 feet.	advanced through inferred cobbles/boulders	Sheet 1 of 1 SM-001-M REV.

**Connecticut DOT Boring Report** 

Stamford

Project No.: 135-301; 135-326

Hole No.: RW-106-1

Northing:

Stat./Offset: 512+64.5/39.5 RT

579326.15

o.: RW-106-2	ng Report Hole No.:	t DOT Borir	cticu	nne	Co			)	n Sabo	Tin	riller:
ffset: 514+40.6/37.9 RT	Stat./Offse	ford	Stam		own:	To		nton	an Ca	or: Bri	spect
g: 579412.32	Northing:	801; 135-326	135-3	No.:	oject l	Pr	nc.	gn, Ir	eoDesi	er: Ge	ngine
y: 782667.35	Easting:			o.:	oute N	R			26-14	ate: 6-2	tart Da
e Elevation: 12.9	Surface El			lo.:	ridge N	Br			26-14	Date: 6-2	nish [
oad Bridge No. 8012R	ent of Metro-North Railroad	and Replaceme	reet a	ntic S	f Atlar	ction o	nstru	Recor	tion: F	Descript	roject
arrel Type: NQ	Core Barre	SS: 1-3/8" ID	/Size:	· Type	ample	Sa	D	/-4" I	pe: HV	Size/Typ	asing
<u> </u>		o. Fall: 30 in.			-					er Wt.: 3	
	I			ed	bserv					lwater Ol	
,		_				PLES					
3		Generalized Strata Description									$\overline{}$
	Material Desc	rali a ripti	%	(in.)	(in.)		vs on			Sample Type/No.	Depth (ft)
lotes	and Note	ene rata	RQD	Rec.	Pen.		npler inche		n	amk 'be/	ept[
i		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	A X	Ä	P	<b>7</b> 3	IIICIIE	ei o		Ss T	ا ۵
		4" Pavement									0
ESAND come of gravel	Madium danca brown CESA	Structure									_
SAND, Some C-I graver,	Medium dense, brown, C-F SA trace silt	(Asphalt) 8" Pavement		12	24	25	13	9	14	S-1	_
—1 ND and GRAVEL trace	Very dense, brown, C-F SAND	Structure							_		_
TIVE and STONVEL, trace	silt	(Concrete) Stratified		16	22	100/4"	54	31	21	S-2	_
E SAND and CRAVE	Very dense, gray brown, C-F S	Sand &									5
-1 SAND and GIVAVEL,	trace silt	Gravel		19	24	38	54	75	62	S-3	_
ND little of gravel trace	Very dense, brown, C-F SAND										
110, little c-i graver, trace 5	silt			14	24	41	40	28	40	S-4	_
\ND some a faraval	Vary dance brown C.E.CAND										_
AND, some c-f gravel,	Very dense, brown, C-F SAND trace silt			14	24	41	29	36	43	S-5	10
AND little of annual trace	Vame dance known C.E.CAND										_
and, little c-i gravei, trace	Very dense, brown, C-F SAND silt			13	24	65	42	28	10	S-6	_
-0									_		_
_											
ND and CRAVEL trace	Very dense, brown, C-F SAND										15
IND and GNAVEL, trace	silt			17	24	49	60	66	34	S-7	-
											-
											_
											_
	No Recovery			0	0			"	100/0	S-8	20
	END OF BORING 20ft										
											25—
											_
—- <u>-</u> -											
											_
			_								30
	idisturbed Piston V = Vane				-	-	-	-	-		
And = 35 - 50%	%, Some = 20 - 35%, And	_ittle = 10 - 20	)%, I	1 - 10	ace =	ed: Tra	Use	tions	Propo		
Sheet		) ft. inferred bedrock	usal at 2		NOTE:				n in	enetratio	otal P
1 of 1		,		. 55/110/1				Oft	Rock:	20ft	arth: 2
			)%, I	1 - 10 S:	ace =	ed: Tra	-	Oft	Propor on in Rock:	enetratio	Earth: 2

### FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT SIGNATURE/ BLOCK: THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-23.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD RETAINING WALL 106** 

**BOR-23 BORING LOGS - 1** 

Border Version: 11/14/08

01.09.023

135-301

FINAL	PLANS	<b>FOR</b>	<b>REVIEW</b>

STATE OF CONNECTICUT SIGNATURE/ BLOCK: J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION Filename: ...\SB\_MSH\_0135\_0301\_BOR-24.dan REV. DATE SHEET NO. Plotted Date: 3/24/2016

SM-001-M REV. 1/02

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

BOR-24 **RETAINING WALL 106** 01.09.024 **BORING LOGS - 2** 

135-301

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS: 1-3/8" ID

Hammer Wt.: 140 lb. Fall: 30 in.

Town:

Route No.:

Bridge No.:

SB-1

Stat./Offset: 509+86.5/23.1 LT

Surface Elevation: 17.6

Core Barrel Type:

579250.46

782238.57

Filename: ...\SB\_MSH\_0135\_0301\_BOR-25.dan

Hole No.:

Northing:

Easting:

Trent Roe

Inspector: Brian Cantor

Start Date: 7-1-14

Finish Date: 7-25-14

Engineer: GeoDesign, Inc.

Casing Size/Type: HW-4" ID

Hammer Wt.: 300 lb. Fall: 24in.

Driller:

riller:	ire	ent Ro	е			O.	JIIIIC	Clicu	it DOT Borin	Hole No.: SB-2	
spect		ris La			7	own:		Stam		Stat./Offset: 510+96.7/29.9 L	LT
ngine	er: Ge	oDesi	gn, Ir	nc.	F	Project	No.:	135-3	301; 135-326	Northing: 579305.77	
tart D	ate: 6-2	0-14			F	Route N	lo.:			Easting: 782333.53	
inish [	Date: 6-2	0-14			E	Bridge <b>N</b>	No.:			Surface Elevation: 17.5	
roject	Descript	ion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replaceme	ent of Metro-North Railroad Bridge No. 8012R	
asing	Size/Typ	e: HV	V-4" I	D	5	Sample	r Type	/Size:	SS: 1-3/8" ID	Core Barrel Type: NQ	
	er Wt.: 3								o. Fall: 30 in.	o o o o o o o o o o o o o o o o o o o	
	lwater Ob								- 1 am		
round	iwator Ox	7001 V C			PLES	3 5 5 5 1 V	<u>ou</u>				
				<b>37 (1711</b>					Generalized Strata Description		(#) = 0; # 0; * 0 L
Depth (ft)	е 6		Blow	s on		(in.)	(in.)	%	aliz	Material Description	9
pth	Sample Type/No.			pler					ner ata scr	and Notes	
Del	Saı Typ	ŗ	er 6	inche	es	Pen.	Rec.	RQD	Str		
0-											
_									3" Pavement Structure		
_	S-1	12	10	9	12	24	10		Miscellaneous	Medium dense, brown C-F SAND and GRAVEL,	
_			10	J					Fill	trace silt and brick	<u> </u>
_	S-2	19	40	22	12	24	11			Very dense, brown C-F SAND, some c-f gravel,	
5—	0 2		70	22	12		' '			trace silt, trace brick	
J _	S-3	9	9	8	9	24	12			Medium dense brick, ash, porcelain, construction	-
	0-3	9	9	O	9	24	12			material	
	S-4	34	50/4"	1		10	8			Dense, brown C-F GRAVEL, some c-f sand, trace silt, trace brick	-1
_									Bedrock		_
_									Dediock		_
10-										Fair Quality, Hard, Slightly Weathered black, fine	_
_	C-1					60	47	45		grained GNEISS [Core Times (min/ft): 4, 6, 5, 6, 6]	_
_										• , , , , , , , , , , , , , , , , , , ,	-5
_											
_											
15—										Fair Quality, Hard, Slightly Weathered black, fine	
_	C-2					60	60	55		grained GNEISS [Core Times (min/ft): 4, 6, 5, 6, 6]	
_											-0
_											
_										END OF BORING 18.5ft	
20 —											
_											
_											
_											5
_											
25-											
_											
_											
_											<u></u>
_											
30-											
-		Samp	ole Ty	pe:	S = S	Split Sp	oon	C = C	Core UP = Un	disturbed Piston V = Vane Shear Test	
		•	•	•						%, Some = 20 - 35%, And = 35 - 50%	
	_	1 -		_	_			,			

### FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED

SHEET NO. Plotted Date: 3/24/2016

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

No. of

Soil Samples: 4

No. of

Core Runs: 2

135-301 **STAMFORD** DRAWING TITLE: **STRUCTURE** 

BOR-25 SHEET NO. 01.09.025 **BORING LOGS - 1** 

SM-001-M REV. 1/02

REV. DATE

REVISION DESCRIPTION

Driller:	Rog	ger Bu	ırne			Co	onne	cticu	ıt DOT Borir	ng Report	Hole No.: S	B-4	
Inspecto	or: Chi	is Lar	ne		Т	own:		Stam	ford		Stat./Offset: 1	07+62.0/76.0 เ	_T
Enginee	r: Ge	oDesi	gn, Ir	nc.	F	Project	No.:	135-3	301; 135-326		Northing: 5	79147.91	
Start Da	ite: 9-9	-14			F	Route N	lo.:				Easting: 7	82240.25	
Finish D	ate: 9-1	2-14			Е	Bridge N	No.:				Surface Elevation	on: 30.6	
Project I	Descript	ion: F	Recor	nstru	ction o	of Atla	ntic S	treet a	and Replacem	ent of Metro-Nort	h Railroad Brid	ge No. 8012R	
Casing	Size/Typ	e: HV	/-4" I	D	S	Sample	r Type	/Size:	SS: 1-3/8" ID		Core Barrel Typ	e: NX	
Hamme	r Wt.: 30	00 lb.	Fall:	24in	. ⊦	lamme	r Wt.:	140 II	b. Fall: 30 in.				
Groundy	water Ob	servat	ions:	@N	lone (	Observ	/ed						
				SAM	PLES				_ p				(#)
Depth (ft)	Sample Type/No.	р	San	vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	terial Description and Notes	on	Elevation (
0									Railroad Ballast				30
									Miscellaneous Fill				_
5—	S-1	9	8	7	7	24	18			Medium dense, br	own F SAND, little	silt	_ 25
_	S-2	9	8	8	7	24	8			Medium dense, br	own F SAND, trac	e silt	-
10—	S-3	6	5	3	3	24	3			Loose, brown C-F	SAND, trace silt		
_	S-4	7	5	3	4	24	6			Loose, brown F S	AND, trace silt		—20 –
	S-5	3	2	2	2	24	0			No Recovery			
15	S-6	6	4	3	4	24	12			Loose, clayey SIL	T, little f gravel		_ 15
_									Stratified Sand & Gravel				_
20—	S-7	75	100/4	"		10	6		Bedrock	Very dense, Weat	hered Rock		_ 10
	<u> </u>	13	100/4							1 11, 1000, 11000			
25— —	C-1					60	57	72		Fair quality, hard, grained, GNEISS [Core Times (min/	-		- - -5
	0.0					20		50		Fair quality, hard,	slightly weathered	, black, fine	
30	C-2	Samn	le Tv	vpe:	S = S	60 Split Sp	60 oon	52 C = 0	Core UP=Un	grained, GNEISS adisturbed Piston	V = Vane She	ear Test	
		-	•	-						%, Some = 20 -			
Total Pe		•				NOTE	S:					She	et
Earth: 2		Rock	- 1∩f+					oring to	the north due to rail s	witches. Inferred cobble f	rom 19 to 21 feet.	1 of	
No. of	. <u>4</u> 1		o. of	•		$\dashv$							
Soil San	nples: 7			uns: 2	2							SM-001-M F	REV. 1/02

Oriller: nspect		ger Burne ris Lane	Town:		Stam	<b>it DOT Bori</b> ford		le No.: SB- nt./Offset: 107	7+62.0/76.0 LT
Engine	er: Geo	Design, Inc.	Project	No.:	135-3	801; 135-326	No	rthing: 579	9147.91
	ate: 9-9		Route	No.:					2240.25
	Date: 9-1		Bridge					rface Elevation	
	•					•	nent of Metro-North R		
		e: HW-4" ID				SS: 1-3/8" ID		re Barrel Type:	NX
		00 lb. Fall: 24in.			140 lk	o. Fall: 30 in	•		
FIOUNC	water Ob	servations: @Non SAMPLE		veu					
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description		al Description nd Notes	Elevation (ft)
30-						Bedrock (con't)	[Core Times (min/ft): 7	, 7, 8, 19, 5]	-0
_							END OF BORING 32ft		
_									_
35-	-								-
_	-								-5
_									
_									_
40-									-
<del>4</del> 0 _									10
_	-								-
_	-								
_									_
45— _									—-1 <del></del>
_	-								_
_									-
_									
50-	_								—-20
_									-
_	-								-
_	-								
55—									_ 25
_	-								
_									-
_	-								_
60-		•	•	-			ndisturbed Piston V		
		·			)%, l	_ittle = 10 - 20	0%, Some = 20 - 35	%, And = 35	
otal Parth:	Penetration 22ft	n in Rock: 10ft	NOT Had		oring to t	the north due to rail	switches. Inferred cobble from 1	9 to 21 feet.	Sheet 2 of 2
lo. of	amples: 7	No. of Core Runs: 2							SM-001-M REV. 1/

#### FINAL PLANS FOR REVIEW 135-301 **STAMFORD BOR-26** DRAWING TITLE: **STRUCTURE** 01.09.026 **BORING LOGS - 2**

STATE OF CONNECTICUT SIGNATURE/ BLOCK: THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-26.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

Border Version: 11/14/08

REV. DATE

REVISION DESCRIPTION

SHEET NO. Plotted Date: 3/24/2016

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Stamford

Project No.: 135-301; 135-326

Sampler Type/Size: SS: 1-3/8" ID

Hammer Wt.: 140 lb. Fall: 30 in.

Town:

Route No.:

Bridge No.:

SB-5

Stat./Offset: 108+01.7/81.1 LT

Surface Elevation: 16.5

Core Barrel Type: NQ

579182.38

782230.51

Elevation (ft)

Hole No.:

Northing:

Easting:

Tim Sabo

Inspector: Brian Cantor

Start Date: 6-25-14

Finish Date: 6-26-14

Engineer: GeoDesign, Inc.

Casing Size/Type: HW-4" ID

Hammer Wt.: 300 lb. Fall: 24in.

Driller:

riller:		te St. J			C			ıt DOT Boriı	ig Report	Hole No.:	SB-6	
specto		ris Lan			Town:		Stam			Stat./Offset:	107+32.6/5.3 L	.T
ginee			ın, Inc.		Project	No.:	135-3	301; 135-326		Northing:	579129.1	
art Da	te: 8-2	0-14			Route N	lo.:				Easting:	782314.02	
nish D	ate: 8-2	0-14			Bridge N	lo.:				Surface Elev	ration: 14.3	
oject [	Descript	ion: R	econst	ruction	of Atla	ntic S	treet a	and Replacem	ent of Metro-Nor	th Railroad B	ridge No. 8012F	₹
sing S	Size/Typ	e: NW	'-3" ID		Sample	r Type	/Size:	SS: 1-3/8" ID		Core Barrel 7	ype: NQ	
mmer	Wt.: 3	00 lb.	Fall: 24	in.	Hamme	r Wt.:	140 II	b. Fall: 30 in.				
oundv	vater Ob	servati	ons: @	None	Observ	ed						
			SAI	MPLES	3			70				
Deptn (rt)	Sample Type/No.		Blows o Sample er 6 inc	er	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	iterial Descrip and Notes	otion	
0 -								16" Pavement Structure Miscellaneous Fill	Gray C-F SAND, I	ittle c-f gravel, t	trace silt	
5—	S-1	38	46 100	)/1"	13	9			Very Dense, gray/ sand, trace silt	brown C-F GRA	AVEL, little c-f	<u> </u>
	S-2	46	80 8	0 59	24	14			Very Dense, gray/ SAND, trace silt	brown C-F GR	AVEL and C-F	
	S-3	   100/6"	ı		6	4		Stratified	Very Dense, gray/	brown C-F SAN	ND, little f gravel,	
		100/0				•		Sand and	trace silt			_5
10	S-4	100/0"			0	0		Gravel	No Recovery			
_								Bedrock				
_	C-1				60	35	55		Fair Quality, hard, grained GNEISS	slightly weathe	ered, black fine	_
4.5												-0
15—												
_ _ _	C-2				60	49	78		Good Quality, har grained GNEISS	d, slightly weath	nered, black fine	
20—									END OF BORING	: 20ft		<b>_</b>
									LIVE OF BOILING	, <u>2011</u>		
_												
_												
$\dashv$												
25												
30—												

FINAL PLANS FOR REVI	

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE CHECKED BY SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE D. COSTELLO THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-27.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

NOTES: Boring hand cleared to 4 ft.

Total Penetration in

Rock: 10ft

No. of

Core Runs: 2

Earth: 10ft

Soil Samples: 4

135-301 **STAMFORD** DRAWING TITLE: **STRUCTURE** SHEET NO. 01.09.027 **BORING LOGS - 3** 

Sheet

1 of 1

SM-001-M REV. 1/02

**BOR-27** 

Driller:	Tre	ent Roe	Co	onne	cticu	ıt DOT Borir	ng Report	Hole No.: SB-7	
Inspecto		ris Lane	Town:		Stam			Stat./Offset: 108+22.5/21.0 F	RT
Engine		oDesign, Inc.	Project		135-3	301; 135-326		Northing: 579221.56	
	ate: 6-2		Route N					Easting: 782317.9	
	Date: 6-2		Bridge 1					Surface Elevation: 15.3	
Project	Descript	ion: Reconstruction	n of Atla	ntic S	treet a	and Replacem	ent of Metro-Nort	h Railroad Bridge No. 8012R	
		oe: HW-4" ID 00 lb. Fall: 24in.				SS: 1-3/8" ID		Core Barrel Type: NQ	
		oservations: @None	<u> </u>						
		SAMPLE	S			70			t)
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	terial Description and Notes	Elevation (ft)
0						3" Pavement			<u> </u>
_	S-1	10 11 9 10	24	12		Structure (Asphalt) 8" Pavement Structure	Medium dense, br trace silt	own C-F SAND, some c-f gravel,	_
_	S-2	5 5 7 17	24	6		(Concrete) Stratified	trace silt	own C-F SAND, some c-f gravel,	
5—	S-3	34 100/6"	12	6		Sand & Gravel	Very dense, browr silt	n C-F SAND, little c-f gravel, trace	—10 —
- - - -	S-4	36 71 100/1"	13	11		Bedrock	Very dense, browr silt	n C-F SAND, little c-f gravel, trace	_
10-	C-1		60	56	90		Excellent Quality, fine grained GNEIs [Core Times (min/		-5 -
15—	C-2		60	60	100		Excellent Quality, fine grained GNEI [Core Times (min/		_ _ _ _
-							END OF BORING	18.5ft	_
20-									5
_									
25									-10
									_
30			• •					V = Vane Shear Test	
otal Pe	enetratio	•	NOTE Starte	S: d coring	at 6.5 fe	et due through a boul	der. Then advanced roller		
arth: 8		Rock: 10ft No. of	due to	inferred	boulders		l hole 2 feet east. Drilled t	o 7.5 feet due to an	
oil Sar	mples: 4	Core Runs: 2						SM-001-M R	EV. 1/

FINAL PLANS FOR REVIEW
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STATE OF CONNECTICUT SIGNATURE/ BLOCK: THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-28.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

135-301 **STAMFORD** DRAWING TITLE: SHEET NO.

**BOR-28** 

01.09.028

STRUCTURE BORING LOGS - 4

Driller:	Ro	ger Bu	ırne			Co	onne	cticu	ıt DOT Borir	ng Report Hole No.:	SB-9	
Inspect		ris Lar				Town:		Stam			08+02.0/53.9 R	T
Engine		oDesi	gn, I	nc.				135-3	301; 135-326		79210.69	
	ate: 9-3					Route N				Easting: 7 Surface Elevat	'82368.61 ion: 30.5	
	Date: 9-1		eco.	netruc		Bridge N		treet :	and Renlacem	ent of Metro-North Railroad Brid		
	Size/Typ								SS: 1-3/8" ID	Core Barrel Typ		
	er Wt.: 3					-			b. Fall: 30 in.	Core Darrer Typ	De. IVX	
						Observ			<u> </u>			
			,	SAMF	PLES	S			70			(ft)
Depth (ft)	Sample Type/No.	р	Sar	ws on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	on	Elevation (f
0-									Miscellaneous Fill			30 
5— -	S-1	9	10	8	6	24	20			Medium dense, brown C-F SAND, t trace silt	•	_ _ _ _25
_	S-2	29	14	9	7	24	13			Medium dense, brown C-F SAND, t trace silt  Medium dense, brown C-F SAND, t	_	_
40	S-3	14	10	6	6	24	10			trace silt	race i graver,	
10-	S-4	7	6	4	5	24	7			Medium dense, brown C-F SAND, t	race silt	-20 -
_	S-5	4	4	1/12"		24	1			Very loose, brown F SAND, trace si	lt, trace f gravel	_
15— —	S-6	5	9	9	6	24	0		Stratified Sand & Gravel	No Recovery		15 
<u> </u>	S-7	9	4	4	8	24	2			Loose, brown/gray C-F GRAVEL, so silt	ome f sand, trace	_
20-	S-8	100/1	"			1	0		Bedrock	No Recovery		_ 10 
25—	C-1					60	42	52		Fair Quality, Hard, Slightly Weather GNEISS [Core Times (min/ft): 11, 7, 4, 3, 9]	ed black,	_ _ _ _5
30	C-2					60	53	53		Fair Quality, Hard, Slightly Weather GNEISS [Core Times (min/ft): 9, 5, 5, 5, 6]	ed black,	_
										disturbed Piston V = Vane Show, Some = 20 - 35%, And = 3		
Total P	enetratio	n in				NOTE	S:				Shee	
Earth:			o. of								1 of	
SOII Sa	mples: 8	) C(	ore R	Runs: 2	<u> </u>						SM-001-M R	⊏v. 1/02

nspect ngine		s Lane Design, Inc.	Town: Project		Stam 135-3	ford 301; 135-326		Stat./Offset: 108+02 Northing: 579210	.0/53.9 RT .69
	ate: 9-3-		Route N					Easting: 782368	
inish [	Date: 9-12	-14	Bridge N					Surface Elevation: 30	
roject	Description	n: Reconstructio	n of Atla	ntic S	treet a	and Replacem	nent of Metro-N	orth Railroad Bridge No.	8012R
		: HW-4" ID 0 lb. Fall: 24in.	-			SS: 1-3/8" ID b. Fall: 30 in	Core Barrel Type: NX		
round	lwater Obs	servations: @None	e Observ	⁄ed		,			
		SAMPLE	S			- p <sub>0</sub> ∟			€
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	N	Material Description and Notes	T cotto
30						Bedrock			-0
_						(con't)	END OF BORIN	NG 31 5ff	
							LIND OF DOKII	NO 01.0IL	_
									_
35-									
_									<del></del> -5
_									
_									_
_									_
40-									<del>-</del> -1
_									_
_									_
45-									
_									<u> </u>
_									_
_									_
F0 -									_
50									2
									_
_									
_									
55									
_									
									_
_									_
60									_
00	S	ample Type: S =	Split Sp	oon	C = 0	Core UP = U	ndisturbed Pisto	on V = Vane Shear Tes	st
	P	roportions Used:	Trace =	1 - 10	)%,	Little = 10 - 20	0%, Some = 20	0 - 35%, And = $35 - 50$	%
otal P	enetration	in	NOTE	S:					Sheet
orth: '	21.5ft I	Rock: 10ft							2 of 2

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-29.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

SIGNATURE/ BLOCK:

135-301 **STAMFORD BOR-29** DRAWING TITLE: STRUCTURE BORING LOGS - 5 01.09.029

Driller: Tim Sabo				it DOT Borin		54 2 DT						
nspector: Chris Lane Engineer: GeoDesign, Inc.	Town: Project I		Stam 135-3	301; 135-326	Stat./Offset: 514+72.7/19  Northing: 579329.84	04.2 K I						
Start Date: 7-30-14	Route N		100-0	001, 100-020	Easting: 782756.08							
Finish Date: 8-6-14	Bridge N				Surface Elevation: 29.1							
		of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R										
Casing Size/Type: HW-4" ID				SS: 1-3/8" ID	Core Barrel Type: NQ							
lammer Wt.: 300 lb. Fall: 24in.			140	b. Fall: 30 in.								
Groundwater Observations: @Nor SAMPLI		'ea										
Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)						
0				Miscellaneous Fill								
5—\100/2"	2	1			Very dense, green C-F GRAVEL, trace c-f sand silt	and – –25						
S-2 100/3"	3	2			Very dense, gray/white C-F GRAVEL	_						
S-3 15 21 30 2 10 S-4 100/1"	3 24 1	2 0			Very dense, gray/white/light brown C-F GRAVEL No Recovery	20 						
_ S-5 20 8 7 8	3 24	0			No Recovery	_ _ _ 15						
15 S-6 100/5"	5	2		Stratified Sand & Gravel	Very dense, gray C-F GRAVEL	- - -						
20 - S-7 8 10 11 3	9 24	12			Medium dense, brown C-F SAND, little c-f grave trace silt	- - 10 - - - -						
25 S-8 100/1"	1	1			Very dense, fine to coarse Gravel	_ 5 						
30						-0						
• • •					disturbed Piston V = Vane Shear Test %, Some = 20 - 35%, And = 35 - 50%							
otal Penetration in arth: 40ft Rock: 0ft o. of No. of	NOTES Inferre pulled feet wi	S: d boulders 4" casing	s and c out at ng. Fro	obbles from 0 to 4 fee 14 feet and used 3.25 m 15 to 40 feet used	at and 4 to 40 fact. Chaon bont in comple 2	Sheet 1 of 2						

inish [	ate: 7-3 Date: 8-6	6-14	Route N Bridge N	No.:			Surface Elevation:	
	•	pe: HW-4" ID				SS: 1-3/8" ID	nent of Metro-North Railroad Bridge  Core Barrel Type: N	
		00 lb. Fall: 24in.	· ·			b. Fall: 30 in		10
round	lwater Ol	bservations: @None		ed		T		
Depth (ft)	Sample Type/No.	SAMPLE Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (#)
30-	S-9	35 60 100/6"	18	9		Stratified Sand & Gravel (con't)	Very dense, gray/black C-F GRAVEL, lit trace silt	tle c-f sand,
35—	S-10	100/1"	1	0			No Recovery	- 
40-							END OF BORING 40ft	_ _ 1
- - 45-								- - 1 -
50-								_ _  _ _
- 55- -								_ 2 _ _
60							ndisturbed Piston V = Vane Shear 30%, Some = 20 - 35%, And = 35 -	

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION

Filename: ...\SB\_MSH\_0135\_0301\_BOR-30.dgn

SHEET NO. Plotted Date: 3/24/2016

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

SIGNATURE/ BLOCK:

**STAMFORD** DRAWING TITLE: **STRUCTURE** 

**BORING LOGS - 6** 

135-301 **BOR-30** 01.09.030

REV. DATE

Driller:	Tir	n Sabo	)			Co	onne	cticu	ıt DO	T Boring Re	port	Hole No.:	SB-11		
Inspect	or: Ch	ris Lar	ne			Town:		Stam	ford			Stat./Offset:	516+03.4/190.6	RT	
Engine		eoDesi	gn, Ir	nc.		Project	No.:	135-3	301; 1	35-326		Northing:	579374.82		
Start D	ate: 7-2	28-14				Route N	lo.:					Easting:	782891.55		
Finish I	Date: 7-2	29-14				Bridge N	No.:					Surface Elev	ation: 28.2		
Project	Descrip	tion: F	Recoi	nstru	ction	of Atla	ntic S	treet a	and Re	eplacement of I	Metro-Nor	th Railroad B	ridge No. 8012R		
Casing	Size/Ty	ne. HV	V-4"	ID		Sample	r Type	/Size	SS: 1	-3/8" ID		Core Barrel T	vne.		
	er Wt.: 3					•	Hammer Wt.: 140 lb. Fall: 30 in.								
	lwater O														
		1		SAMI	PLES	3	Т		- "9	و ر				<del> </del>	
( <del>L</del> )	. o		Dlov	vo on		<u>-</u>	<u>-</u>		ber	llize		Material Desc	crintion	) uc	
Depth (ft)	Sample Type/No.			vs on npler	-	. (in.)	. (in.)	% (	Casing Blows p	Generalized Strata Description		and Not	•	Elevation (ft)	
)ep	San	p		inche		Pen.	Rec.	RQD	Sas	Sen Stra Oes				<u> </u>	
0-	07 [							<b>LL</b>	ОШ						
										Miscellaneous Fill					
_										' '''					
_														75	
_														<del>-</del> 25	
5-	S-1	3	3	3	4	24	18		2		Loose, light gravel, trac	t brown C-F SA	ND, trace fine		
_									8		graver, trac	e siit			
_	S-2	7	6	6	7	24	6		6		Medium de silt, trace fi		C-F SAND, trace		
_									4		Siit, trace iii	ne graver		_20	
_	S-3	5	3	3	3	24	12		5		Loose, light	t brown C-F SA	ND, little c-f gravel,		
10-									5		trace siit				
_	S-4	5	5	3	5	24	9		4		Loose, light gravel, trac	t brown C-F SA e silt	ND, trace c-f		
_									9						
_	S-5	5	6	6	6	24	8		6		Medium de silt	nse, light brown	n C-F SAND, trace	<del>-</del> 15	
_									11						
15-									1		Madium da	noo liahthuuw	C C CAND trace	_	
_	S-6	10	5	15	12	24	6		12		c-f gravel, t		n C-F SAND, trace	_	
_		_							4		Modium do	nco brown/gray	, C E CDAVEL	_	
_	S-7	12	7	12	17	24	10		5			and, trace silt	y C-F GRAVEL,	<del>-</del> 10	
_		_							10					_	
20-									7	Stratified	Very dense	hrown/gray C-	-F GRAVEL, little		
_	S-8	25	40	61	100	24	13		10	Sand and Gravel	c-f sand, tra		or or veller, maio		
_									39	. 0.000				-	
_									87					-5	
									80						
25—	S-9	10	65	100		18	9		18				-F SAND and C-F		
_		-							14		GRAVEL, t	race siit		_	
									18						
									33					-0	
30-									36						
30-		Samp	le Tv	/pe:	S = \$	Split Sr	oon	C = C	Core	UP = Undisturk	oed Piston	V = Vane S	Shear Test		
		•	•	•						= 10 - 20%, Sc					
Total P	Total Penetration in NOTES: Hand auger to 4 ft. to clear utilities. Cobbles inferred by rig behavior between 24 - Sheet														
Earth:	40ft	Rock	: 10f1	t		24.5 ft	•						1 o	f 2	
No. of		N	o. of												
Soil Sa	mples: 1	12 C	ore R	uns: 2	2								SM-001-M	REV. 1/02	

riller: nspect		n Sabo ris Lane	Tov			Stam		T Boring R	eport	Hole No.: SB-11 Stat./Offset: 516+0	3.4/190.6 I	RT
ingine		oDesign, Inc.		vii. oject l				35-326		Northing: 57937		1
	ate: 7-2			ute N			,			Easting: 78289		
inish [	Date: 7-2	29-14	Brid	dge N	lo.:					Surface Elevation: 28	8.2	
roject	Descript	ion: Reconstruction	on of	Atlar	ntic St	treet a	and Re	eplacement o	f Metro-Nort	th Railroad Bridge No	o. 8012R	
asing	Size/Typ	pe: HW-4" ID	Sar	mplei	r Type	/Size:	SS: 1	-3/8" ID		Core Barrel Type:		
	-	00 lb. Fall: 24in.	Har	mme	r Wt.:	140 ll	o. Fa	II: 30 in.				
round	water Ol	oservations: @Non	e Ob	serv	ed							
_		SAMPLE	ES			T	9	p u				(#)
(ff)	⊕ <u>°</u>	Blows on		(in.)	(in.)	%	) per	Generalized Strata Description		Material Description		2
Depth (ft)	πpl Ne⁄N	Sampler		j. (i	c. (i		sing ws	nera ata scri		and Notes		Flevation
Del	Sample Type/No.	per 6 inches		Pen.	Rec.	RQD	Casing Blows p	Ge Stra Des				Ц
30		00.400/01		40	0			Stratified	Very dense	e, brown C-F GRAVEL, tr	ace sand.	_
_	S-10	30 100/6"		12	6		22	Sand and		reathered rock)	,	
_							78	Gravel (con't)				
_							51					-5
							98					
35—	C 11	00 00 54 4		0.4	40		68		Very dense	, black/gray M-F SAND,	some silt,	
	S-11	20 39 51 4	4	24	12		44		little c-f gra	vel		
_							64					
												1
40	S-12	100/0"		0	0			Dodrook	No Recove	ry		
_	J-12							Bedrock				
_	0.4			00	50	00				uality, hard, slightly wea	thered,	
_	C-1			60	58	93				grained, GNEISS (min./ft.): 5, 6, 6, 6, 7		<u> </u>
_												
45												
									Excellent O	uality, hard, slightly wea	thered	
	C-2			60	60	100			black, fine	grained, GNEISS	itiror ou,	_
_									Core Time	(min./ft.): 3, 4, 5, 5, 4		<del>-</del> -2
50									END OF D			
_									END OF BO	JING DIII		
_												
_												<u> </u>
_												
55—												
												<del>-3</del>
60												
		Sample Type: S	= Spl	lit Sp	oon	C = C	Core	UP = Undistu	rbed Piston	V = Vane Shear Te	est	
	ı	Proportions Used:	Trad	ce =	1 - 10	)%, I	_ittle =	= 10 - 20%, S	Some = 20 -	35%, And = 35 - 50	0%	
otal P	enetratio	n in	į	NOTE:	S: Hand	auger to	o 4 ft. to	clear utilities. Cobble	es inferred by rig b	pehavior between 24 -	Shee	
arth: 4	40ft	Rock: 10ft		∠4.3 ∏.	•						2 of	2
o. of		No. of 2 Core Runs: 2									SM-001-M RI	

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

SIGNATURE/ BLOCK: TOWN:

STAMFORD

DRAWING TITLE:

STRUCTURE
BORING LOGS - 7

PROJECT NO.

135-301

DRAWING NO.

BOR-31

SHEET NO.

01.09.031

riller:		ger Bu ris Lar				Co Town:		<b>ctic</b> u Stam	ıt DOT Borir	g Report	Hole No.: SB-12 Stat./Offset: 518+29.9/98	2 00 DT				
nspecto Engineer		oDesiç		nc					301; 135-326		Northing: 579561.54	).U3 IXI				
Start Dat			<i>3</i> 11, 11	10.		Route N		100-0	501, 135-320							
inish Da											Easting: 783024.96 Surface Elevation: 28.8					
			ocor	netru (		Bridge N		troot o	and Panlacom	ant of Motro Nor	th Railroad Bridge No. 801	2D				
									•	ent of Metro-Mor						
asing S		·				Sample	Core Barrel Type: NX									
ammer							lammer Wt.: 140 lb. Fall: 30 in.									
roundw	ater O	bservat				Observ	'ed									
		T		SAMF	LES	<u> </u>		1	þ u			(#)				
(ft)	<u>ه</u> 0		Blow	vs on		(in.)	(in.)		alize	Ma	aterial Description					
t	pple e/N			npler				% C	nera nta crip		and Notes	/ati				
Depth (ft)	Sample Type/No.	р		inche		Pen.	Rec.	RQD	Generalized Strata Description			Elevation				
0	<u> </u>								000							
									Miscellaneous Fill	Black F SAND, so	ome c-f gravel, little silt					
									1 111	Light brown C-F S	SAND, trace silt					
												-25				
E	S-1		4	E	E	24	15			Loose, light brown	n/brown C-F SAND, trace f grav					
5—	3-1	6	4	5	5	24	15			trace silt						
	C 2		0	7	0	0.4				Modium donco hi	rown C-F SAND, trace silt					
	S-2	6	6	/	6	24	1			Mediam dense, Di	TOWN C-P SAIND, trace siit					
	0.0		0	0	0	0.4	_			Madium danaa h	rown C E SAND trace silt	-20				
4.0	S-3	11	6	6	6	24	4			wealum dense, br	rown C-F SAND, trace silt					
10			_				_			Manulana a Iran	E CAND Asses 214					
	S-4	3	2	2	3	24	5			Very loose, brown	r F SAND, trace silt					
											AND ( "					
	S-5	7	5	3	3	24	3			Loose, brown F S	AND, trace silt	4.5				
												<del>-</del> 15				
15											E OAND ( )					
	S-6	4	2	2	3	24	5			Very loose, brown	n F SAND, trace silt, trace f grav	/el				
										Medium dense. C	OAL/C-F GRAVEL, some brow	n f				
	S-7	15	11	7	8	24	3			sand, trace silt						
												<del>-</del> 10				
20																
	S-8	10	4	3	3	24	0			No Recovery						
		_								Stiff brown CLAY	EY SILT, some c-f gravel, trace	م f				
$\dashv$	S-9	5	7	8	10	24	12			sand	J , Join o i gravor, trace					
_		-							Stratified			-5				
25	0.40	] _ 100/5'	11			5	5		Gravel and Sand		brown C-F GRAVEL, some c-f					
_	S-10	100/5				٥	່ວ		Janu	sand, trace silt						
$\dashv$																
$\dashv$																
$\dashv$												-0				
30						<u> </u>					., ., -					
		•	•	•		•					V = Vane Shear Test					
		Propor	tions	Use	ed: T	Γrace =	1 - 10	0%,	Little = 10 - 20 <sup>o</sup>	%, Some = 20 -	- 35%, And = 35 - 50%					
Total Penetration in  NOTES: 4" Casing from 0 to 25 feet, 3" casing from 0 to 36 feet. Inferred boulder from 24 to 25.5 feet.  Sheet																
arth: 38	3ft	Rock:	Oft			T Cas	ing itott	. 0 10 20	root, o casing noin o	to oo leet. Illielled bould	401 110111 27 to 20.0 166t.	1 of 2				
o. of		No	o. of		^											
oii Sam	ıples: 1	12 Co	ore R	uns: (	U						SM-00	1-M REV. 1/				

	ate: 10-3 Date: 10-9		Route N				Easting: 783024.9 Surface Elevation: 28.8	
					treet a	and Replacem	nent of Metro-North Railroad Bridge No.	8012R
	•	e: HW-4" ID	· ·			SS: 1-3/8" ID		
		00 lb. Fall: 24in.			140 I	b. Fall: 30 in		
round	water Ob	servations: @None SAMPLE		/eu				
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	(#) (#) (#) (#) (#) (#) (#) (#) (#) (#)
30	S-11	30 100/3"	9	5		Stratified Gravel and Sand (con't)	Very dense, brown C-F SAND, little c-f grave silt	I, trace
35—	S-12	61 100	12	5			Very dense, brown C-F SAND, little f gravel, silt	trace
40-							END OF BORING 38ft	
_								_ _ _ 
45— — —								- - -
50-								- 2 -
_								- - 2
55— — —								_
60		Sample Type: S =	Split Sp	ooon	C = 0	Core UP = U	ndisturbed Piston V = Vane Shear Test	
							0%, Some = 20 - 35%, And = 35 - 50%	

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED TO INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

STATE OF CONNECTICUT

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-32.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

STAMFORD

DRAWING TITLE:

STRUCTURE

**BORING LOGS - 8** 

135-301

DRAWING NO.

BOR-32

SHEET NO.

01.09.032

Driller:	Tre	ent Ro	е			Co	onne	cticu	ıt DOT Boriı	ng Report	Hole No.:	U-1					
Inspec	or: Ch	ris Lar	ne			Town:		Stam	ford		Stat./Offset:	301+71.6/10.8 L	т				
Engine	er: Ge	oDesi	gn, Ir	nc.		Project	No.:	135-3	301; 135-326		Northing:	579118.22					
Start D	ate: 6-2	23-14				Route N	lo.:				Easting:	782491.33					
Finish	Date: 6-2	24-14				Bridge N	No.:				Surface Elev	ation: 13.2					
Project	Descript	ion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replacem	ent of Metro-Nort	th Railroad B	ridge No. 8012R					
Casing	Size/Typ	be: HV	V-4" I	ID		Sample	r Type	e/Size:	SS: 1-3/8" ID		Core Barrel 7	ype: NQ					
Hamm	er Wt.: 3	00 lb.	Fall:	24in		Hamme	ammer Wt.: 140 lb. Fall: 30 in.										
Ground	lwater Ol	oservat	tions:	@N	lone	Observ	⁄ed										
			(	SAMF	PLE:	S			70 _				f.)				
	o.		Di			$\overline{\cdot}$	$\overline{}$		lize	Ma	torial Dosoria	ation	) u				
th (f	ple N			vs on npler		(in.)	(in.)	% (	era ta crip	IVIA	terial Descrip and Notes	Juon	atic				
Depth (ft)	Sample Type/No.	р		inche		Pen.	Rec.	RQD	Generalized Strata Description				Elevation (ft)				
	<i>o</i> –												ш				
0-									2" Pavement Structure								
_	S-1	11	9	5	4	24	8		(Asphalt)		own gray, C-F	GRAVEL, some c-f					
_		''	3	3	7	24			10" Pavement	sand, trace silt			10				
_	S-2	2	9	12	22	24	13		Structure (Concrete)	Medium dense, br trace silt	own, C-F SANI	D, some c-f gravel,	— 10 —				
5-	S-3	21	40	20	37	24	16		Stratified Sand & Gravel	Very dense, browr	n, C-F SAND, li	ttle c-f gravel, trace					
_	S-4	27	49	47	41	24	13		Glavei	Very dense, browr gravel, trace silt	n gray, C-F SAN	ND, some c-f	_ 5				
10-	S-5	24	40	34	34	24	15			Very dense, brown	n, C-F SAND, s	ome c-f gravel,					
_				•	•					trace silt							
_	S-6	74	27	30	41	24	15			Very dense, Weat	hered Rock		_				
_													_0				
15-	S-7	100/2	) II			2	2			Very dense, Weat	hered Rock/Ro	ck	_				
_		_							Bedrock				_				
_	C-1					60	54	20		Very Poor Quality, fine grained GNEI [Core Times (min/	SS		_ 5				
20											11.7. 5, 4, 6, 4, 4]						
20-		-															
_																	
_	C-2					60	60	100		Excellent Quality, fine grained GNEI [Core Times (min/	SS		_ 10				
25-																	
_		=								END OF BORING	25.8ft		_				
_													_				
_													—-15				
_													-				
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test													_				
		-	•	-						ndisturbed Piston %,   Some = 20 -							
Total P	enetratio	n in				NOTE	S:					She					
Earth:	15.8ft	Rock		<u>t</u>								1 of	T				
No. of Soil Sa	mples: 7	_	o. of ore R	luns: 2	2							SM-001-M F	REV. 1/02				

FINAL PLANS FOR REVIEW
------------------------

DESIGNER/DRAFTER:

J. IVES

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

TO BESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB\_MSH\_0135\_0301\_BOR-33.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

TOWN:

STAMFORD

DRAWING TITLE:

UTILITY CORRIDOR
BORING LOGS - 1

PROJECT NO.

135-301

DRAWING NO.

BOR-33

SHEET NO.

01.09.033

iller:	Ro	ger Bu	ırne			Co	onne	ecticu	t DOT Borir	ng Report Hole No.: U-2					
specto	or: Ch	ris Lar	ne		Т	Γown:		Stam	ford	Stat./Offset: 511+48.1/89.4 F	RT				
nginee	er: Ge	oDesi	gn, lı	nc.	F	Project	No.:	135-3	01; 135-326	Northing: 579227.91					
art Da	ate: 8-2	0-14			F	Route N	lo.:		Easting: 782431.32						
nish D	)ate: 8-2	9-14			E	Bridge N	lge No.: Surface Elevation: 30.4								
oject	Descript	ion: F	Reco	nstru	ction o	of Atla	ntic S	treet a	and Replaceme	ent of Metro-North Railroad Bridge No. 8012R					
sina	Size/Typ	e: HV	V-4"		S	Sample	r Type	e/Size:	SS: 1-3/8"	Core Barrel Type: NX					
	r Wt.: 30			24in		-			o. Fall: 30 in.	, , , , , , , , , , , , , , , , , , ,					
	water Ob							1 10 1	7 4 4 11 1						
	Water Or	200114			PLES		<u> </u>								
_									Generalized Strata Description		(#) acito(c)				
Deptn (rt)	Sample Type/No.		Blov	vs on	1	(in.)	(in.)	%	aliz i	Material Description	2				
	mp Jec/I			npler		٦. (		<b>I</b>	ner ata scr	and Notes					
	Sa Tyf	p	er 6	inche	es	Pen.	Rec.	RQD	Ge Str De						
0									Railroad	RAILROAD BALLAST	20				
_									Ballast	TO TIET COND DI TEEL TO I	-30				
_															
									Miscellaneous	Light brown C-F SAND, little c-f gravel, trace silt					
									Fill						
5	S-1	8	10	9	10	24	16			Medium Dense, brown C-F SAND, trace f gravel,					
			. •	J	. 0					trace silt	-2				
	S-2	10	7	4	5	24	6			Medium Dense, brown C-F SAND, trace f gravel,					
			,	7	J	24				trace silt					
	S-3	7	6	4	6	24	5			Medium Dense, brown/gray C-F SAND, little f					
10	<b>3-3</b>	/	O	4	O	24	5			gravel, trace silt					
10—	S-4	7	1	6	10	24	7			Medium Dense, brown/gray Weathered Rock	-20				
	3-4	/	4	6	10	24	'								
	S-5	7	9	100/1	"	13	5			Very Dense, brown/gray C-F GRAVEL, little c-f sand, trace silt					
										,					
4.5															
15—											15				
	S-6	2	3	6	6	24	7			Loose, brown C-F SAND and C-F GRAVEL, trace Silt, trace Glass					
_										ont, trade diade					
	S-7	12	12	8	7	24	7			Very Stiff, Clayey SILT, some c-f gravel, little c-f sand					
_										Sand					
20—									Sand	Very Dense, brown C-F SAND, trace silt, trace f	<u> </u>				
	S-8	28	42	49	51	24	14			gravel					
+															
$\dashv$															
25											-5				
									Bedrock						
$\dashv$										Fair Quality, hard slightly weathered, black, fine					
$\dashv$	C-1					54	49	70		grained GNEISS Recovery: 90.7%					
4										[Core Times (min/ft): 27, 11, 11, 29, 19, 6]					
30—										· · · · · · · · · · · · · · · · · · ·					
		Samp	le Ty	/pe:	S = S	Split Sp	oon	C = C	Core UP = Un	disturbed Piston V = Vane Shear Test					
	F	⊃ropo	rtions	s Use	ed: T	race =	1 - 1	0%, l	_ittle = 10 - 20	%, Some = 20 - 35%, And = 35 - 50%					
al Pe	enetratio	n in							leared to 4'.	She	et				
		Rock							oller bit on inferred bo Iller bit on inferred bo	ulder from 13.1 - 15.5'.	2				

)riller: nspect		ger Burne ris Lane	To	own:		Stam		<b>ng Report</b> Hole No.: U-2 Stat./Offset: 511+48.1/89.4 F	<b>?</b> T
ingine		Design, Inc.		oject ľ			01; 135-326	Northing: 579227.91	<b>\</b> 1
	ate: 8-2			oute N		100 0	701, 100 020	Easting: 782431.32	
	Date: 8-2			idge N				Surface Elevation: 30.4	
						reet a	and Replacem	nent of Metro-North Railroad Bridge No. 8012R	
		e: HW-4"					SS: 1-3/8"	Core Barrel Type: NX	
		00 lb. Fall: 24in.					o. Fall: 30 in.		
		servations: @Non				1 10 1	5. Tall. 00 III.		
		SAMPLE			<del></del>		_		
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Flevation (ft)
30							Bedrock		-0
							(con't)		-
	C-2			60	60	78		Good Quality, hard, slightly, weathered fine grained GNEISS	-
_	<b>5</b>			00	00	10		[Core Times (min/ft): 32, 12, 12, 17, 21]	
35-									 
_								END OF BORING 35.5ft	<del></del>
_									
_									
40-									— <b>-</b> 1
_									
_									
45—									
45									<del>-</del> -1
_									
_									
50-									
_									2
_									
_									
$\dashv$									_
55—									-2
_									-
									F
									-
60									
60⊸		Sample Type: S:	- a2 =	olit Sp	oon	C = C	Core UP = U	ndisturbed Piston V = Vane Shear Test	
			•	•				0%, Some = 20 - 35%, And = 35 - 50%	
-4-L D	enetratio	<u> </u>					leared to 4'.	She	ot .

FINAL PLANS FOR REVIEW 135-301 **STAMFORD UTILITY CORRIDOR** 

**BORING LOGS - 2** 

SM-001-M REV. 1/02

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** 

**BOR-34** 01.09.034

SCALE AS NOTED

SM-001-M REV. 1/02

Filename: ...\SB\_MSH\_0135\_0301\_BOR-34.dgn

PHASE 2

SIGNATURE/ BLOCK:

No. of Soil Samples: 8 No. of Core Runs: 2

REV. DATE

Core Runs: 2

SHEET NO. Plotted Date: 3/24/2016

Soil Samples: 8

REVISION DESCRIPTION

J. IVES

D. COSTELLO

SCALE AS NOTED

THE INFORMATION, INCLUDING ESTIMATED

SHEET NO. Plotted Date: 3/24/2016

QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

RTATION	SIGNATURE/ BLOCK:

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

TOWN:	PROJECT NO.
	135-301
STAMFORD	DRAWING NO.
DRAWING TITLE:	BOR-35
	DOIX 33
UTILITY CORRIDOR	SHEET NO.
<b>BORING LOGS - 3</b>	01.09.035

FINAL PLANS FOR REVIEW

STATE OF CONNECTICU DEPARTMENT OF TRANSPORT

SM-001-M REV. 1/02

Filename: ...\SB\_MSH\_0135\_0301\_BOR-35.dan

REV. DATE

Soil Samples: 3

REVISION DESCRIPTION

						TEST PIT	LO	G		Test	Pit No. <u>:</u>	TP-2
		O D E C O R P C echnical   Construct Engineers and	tion   Env	<b>G N</b> T E D ironmental		Project Nar nstruction of Atla cement of Metro Bridge No. 8	ntic -Nor	th Ra		Page	e No.:	1 of 1 0101-025.
	984 S Telephone	Southford Road - M (203) 758-8836	liddlebury,	CT 06762 (203) 758-8842		Stamfor		`		Che	cked By:	JWK
GeoDesign	· · · · · · · · · · · · · · · · · · ·	Chris Lane	ı ux.	(200) 700-00-12					Ground	water Ob	oservations	
Weather:		Clear 80's				New England Borings, Inc.	Г	Date	Depth (ft)	levation (ft)		Notes
Date: Time Starte		August 5, 2014 12:00 PM	Time F	inished: 02:00 PM	Operator: Make:	Pete LaBossiere VacMaster	<u>¥</u> 8	3/5/14		(10)	None	e Observed
N. Coordina		579164.44	-	rdinate: 782293.43	Model:	System 4000	Ţ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	urface Elevation (f	, <u> </u>			Capacity:	N/A	Ā					
Station: 10	77+76.1	Offset: 25.1' Left			Reach:	ft	÷					
Depth (feet)	Elevation & Depth (feet)	Те	st Pit Sk	etches & Strata Descri (view to)	ption		Symbol	Excavation Effort	Co	Boule	der d Class	Moistur
BROWNS		8"± ASPHALT										
1		6"±										
2	SAND AND			APPROXIMATE EXCAVATION LII	MITS							
3	GRAVEL											
4		24"±										
5												
6	_											
7												
8		В	оттом ог	F EXPORATION AT 4.0	FEET							
Remarks										N	2'	
Re										†	Test Pit	
2 3 4	were made. 2. Boulder Count 3. Excavation Ef 4. Proportions U	t Class Designations ( fort: E = Easy, M = N sed: Trace = 1-10%; I	diameter rai Moderate, D Little = 10-2	nd under conditions stated, fluinge): A = 6"-18" (0.15m - 0.4 = Difficult.  0%; Some = 20-35%; And =	46m), B = 18".	36" (0.46m - 0.91m), C =				e presen	(fee	
5	o. Stratification l	mes represent approxi	imate bound	lary between material types, to	ansitions may	oe gradual.			T	4 D24 N	Io :	TP-2
									Tes	st Pit N	10.:	

DESIGNER/DRAFTER:

J. IVES

J. IVES

CHECKED BY:

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

D. COSTELLO

STATE OF CONNECTICUT

DEPARTMENT OF TRANSPORTATION

SCALE AS NOTED

Filename: ...\SB\_MSH\_0135\_0301\_BOR-36.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2 STAMFORD

AWING TITLE:

TEST PITS - 1

135-301
DRAWING NO.
BOR-36
SHEET NO.
01.09.036

**TEST PIT LOG** Test Pit No.: TP-3 Project Name Page No.: <u>1 of 1</u> GEODESIG N Reconstruction of Atlantic Street and INCORPORATED Replacement of Metro-North Railroad | File No.: 0101-025.01 Geotechnical | Construction | Environmental Bridge No. 8012R Engineers and Scientists Checked By: \_\_\_JWK Stamford 984 Southford Road - Middlebury, CT 06762 Telephone: (203) 758-8836 Fax: (203) 758-8842 Groundwater Observations GeoDesign Rep: Chris Lane Clear 80's Weather: Contractor: New England Borings, Inc. Depth | Elevation | August 4, 2014 Pete LaBossiere Date: VacMaster ▼ 8/4/14 None Observed Time Started: 09:30 AM Time Finished: 11:30 AM N. Coordinate: 579209.17 E. Coordinate: 782310.36 Model: System 4000 Ground Surface Elevation (feet): 14.7 Capacity: Station: 108+12.3 Offset: 4.3' Right Test Pit Sketches & Strata Description (view to) Depth | Elevation & Boulder Moisture (feet) Depth (feet) Count and Class 6"± ASPHALT BROWNSTONE - APPROXIMATE SAND AND EXCAVATION LIMITS **GRAVEL** BOTTOM OF EXPORATION AT 4.0 FEET Test Pit Plan (feet) Notes: 1. Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time readings 2. Boulder Count Class Designations (diameter range): A = 6"-18" (0.15m - 0.46m), B = 18"-36" (0.46m - 0.91m), C = >36" (>0.91m). 3. Excavation Effort: E = Easy, M = Moderate, D = Difficult. 4. Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50% 5. Stratification lines represent approximate boundary between material types, transitions may be gradual. TP-3 Test Pit No.:

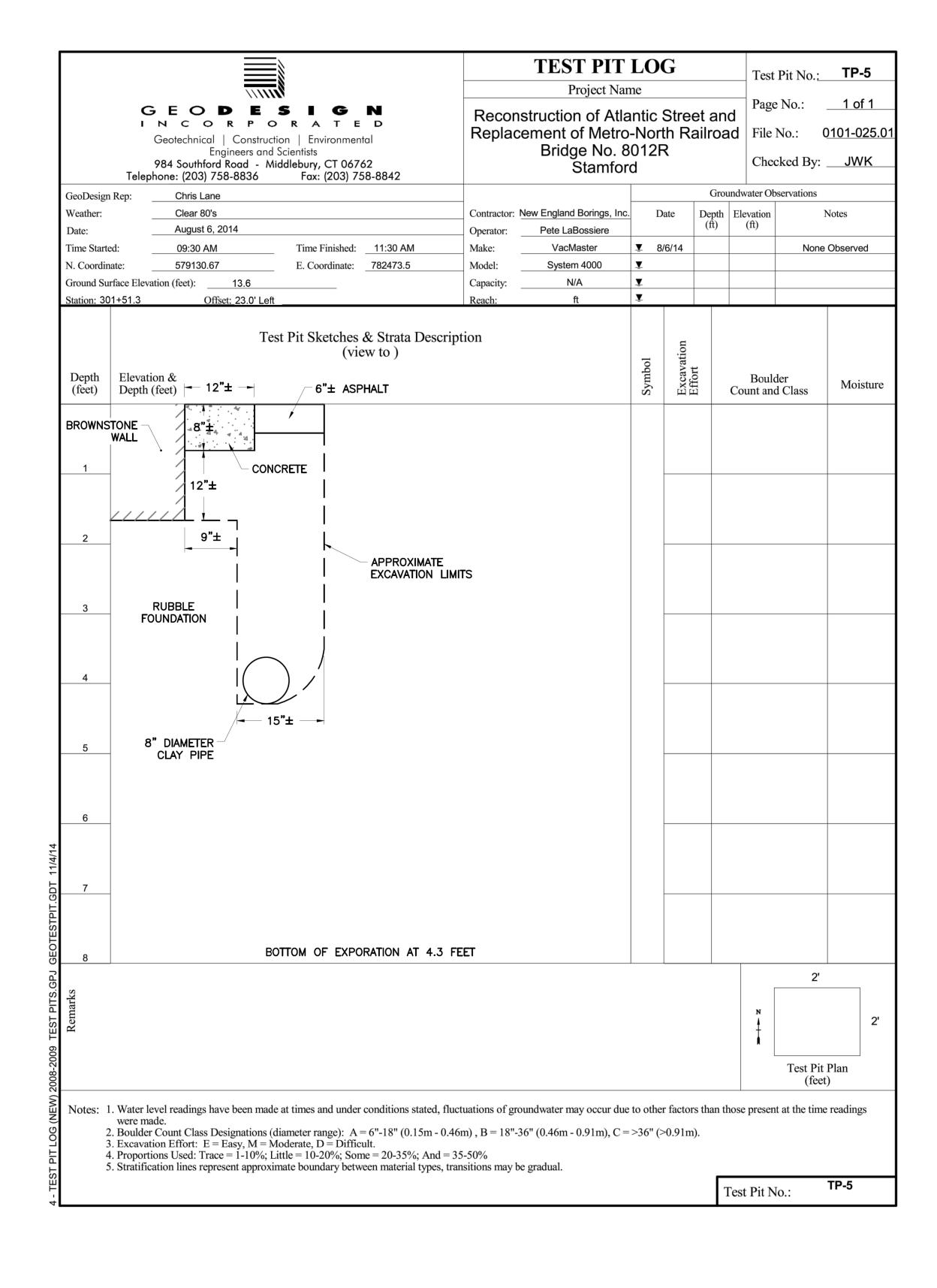
					<b>TEST PIT</b>	LO	G	Te	est Pit No.:	TP-4
C	E O D I	ESIGN		1	Project Nar struction of Atla	antic		and Pa	age No.:	1 of 1
·	Geotechnical   Con- Engineers 984 Southford Road	struction   Environmental and Scientists - Middlebury, CT 06762		Replac	ement of Metro Bridge No. 8 Stamfor	8012I			le No.: hecked By:	0 <u>101-025.(</u> JWK
	phone: (203) 758-883		342		Otalilloi	u I		Groundsvoter	Observations	
GeoDesign Rep: Weather: Date:	Chris Lane Clear 80's August 4, 2014			Contractor: Operator:	New England Borings, Inc. Pete LaBossiere		Date De	epth Elevation (ft)		Notes
Time Started:	12:00 PM	Time Finished: 02:	00 PM	Make:	VacMaster	<b>▼</b> 8	3/4/14		None	e Observed
N. Coordinate: Ground Surface Elev	579270.33 ation (feet): 14.1	E. Coordinate:	419.15	Model: Capacity:	System 4000 N/A	Ā				
Station: 511+14.5	Offset: 48.2			Reach:	ft	Ā				
Depth Elevat (feet) Depth	ion & (feet) ├ <del>-</del> - 12"±	Test Pit Sketches & St (view to		tion		Symbol	Excavation		oulder and Class	Moisture
BROWNSTONE WALL  1  2  RUBBLE FOUNDATION 4  5	8"±.	6"± ASPHALT  CONCRETE  36"±		PROXIMATE CAVATION LIF	MITS					
		BOTTOM OF EXPORATION	ON AT 4.2 FI	EET						
Remarks								N A	Test Pin (fee	et)
were m 2. Boulde	ade. r Count Class Designati	made at times and under conditions (diameter range): A = 6"-1 M = Moderate, D = Difficult.  20%; Little = 10-20%; Some = 2	8" (0.15m - 0.46	$(5m) \cdot B = 18"-3$				an those pre	sent at the tim	e readings
4. Proport 5. Stratific	cation lines represent ap	proximate boundary between m	35%; And = 33 naterial types, train	5-50% nsitions may b	e gradual.					
4. Proport 5. Stratifie	cation lines represent ap	proximate boundary between m	aterial types, tra	5-50% nsitions may b	e gradual.			Test Pit	t No.:	TP-4

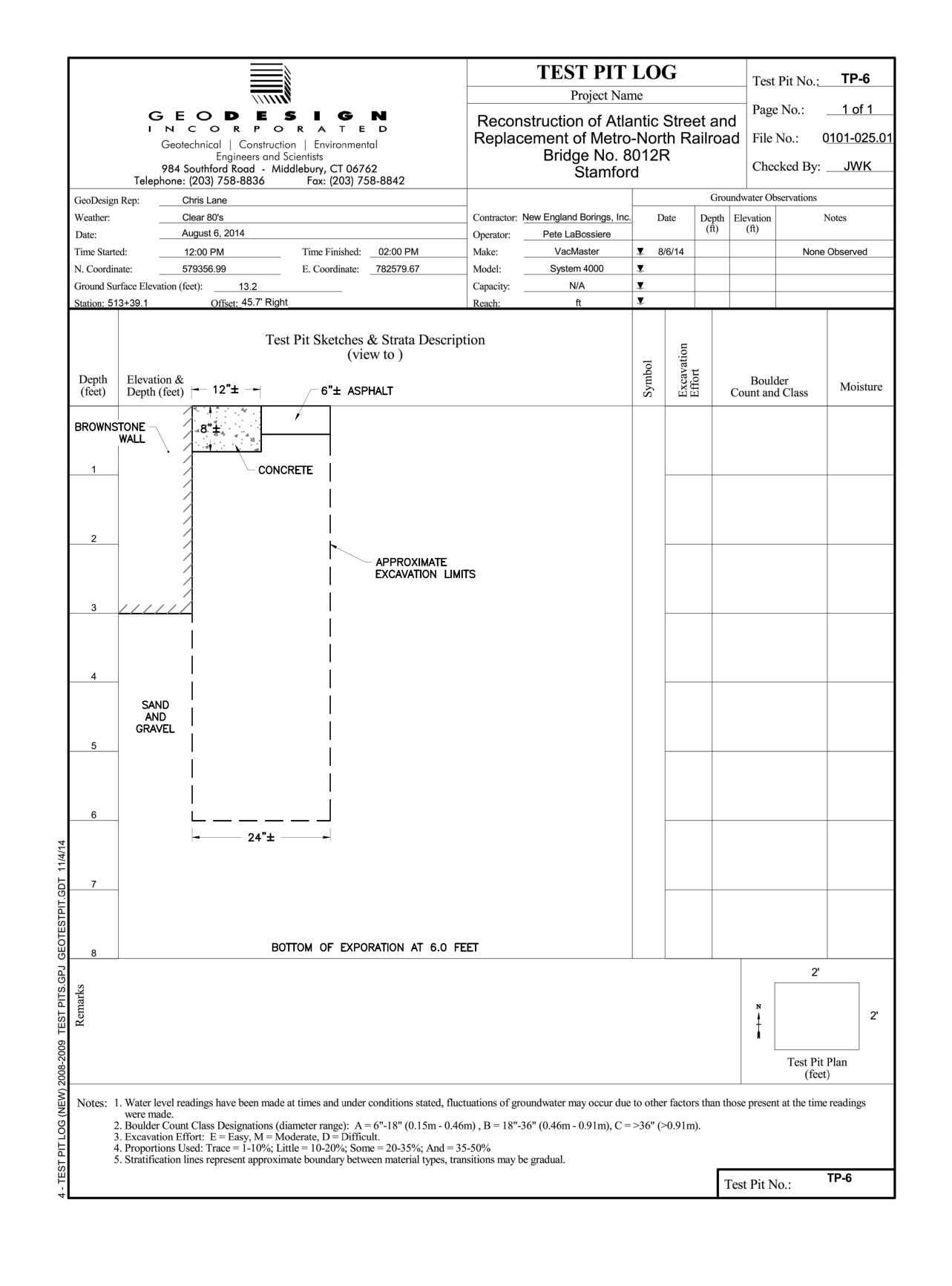
FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION SHEET NO. Plotted Date: 3/24/2016 REV. DATE Filename: ...\SB\_MSH\_0135\_0301\_BOR-37.dgn

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

135-301 **STAMFORD BOR-37** TEST PITS - 2 SHEET NO. 01.09.037





STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION Filename: ...\SB\_MSH\_0135\_0301\_BOR-38.dan REV. DATE SHEET NO. Plotted Date: 3/24/2016

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

135-301 **STAMFORD BOR-38 TEST PITS - 3** SHEET NO. 01.09.038

Driller:	Tre	ent Ro	е			Co	onne	cticu	it DOT Borin	ng Report	Hole No.: AA-1S	3	
Inspect	or: Ch	ris Lar	ne		-	Γown:		Stam	ford		Stat./Offset:		
Engine	er: Ge	oDesi	gn, Ir	ıc.	F	Project I	No.:	135-3	801 (Geo: 0101	1-025.01)	Northing:		
Start D	ate: 10	-27-14			F	Route N	0.:		· ·	,	Easting:		
Finish I	Date: 10	-27-14			E	Bridge N	lo.:				Surface Elevation:		
Project	Descrip	tion: F	Recor	ารtruc				treet a	and Replaceme	ent of Metro-Nort	h Railroad Bridge N	lo. 8012R	
	Size/Ty <sub>l</sub>								SS: 1-3/8" ID		Core Barrel Type:		
Hamme		JC. 110	Fall:			- Hamme			Fall: 30 in.		Core Barrer Type.		
	lwater O	hservat						110	1 411. 00 111.				
Croarie	ivator O	0001741		SAMF			<u>ou</u>						
Depth (ft)	Sample Type/No.	р	Blow Sam	vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	terial Description and Notes		Elevation (ft)
0-	S-1	4	13	17	19	24	13		5" Topsoil Miscellaneous Fill	Dense, brown C-F trace brick	SAND and GRAVEL, to	race silt,	
_	S-2	12	25	36	32	24	18			Very dense, brown trace silt	n C-F GRAVEL, little c-f	sand,	
5-	S-3	29	26	30	27	24	15			Very dense, gray silt, trace asphalt	C-F GRAVEL, little c-f s	and, trace	
_	S-4	11	10	7	8	24	10			Medium dense, bla silt, trace wood	ack C-F SAND, c-f grav	el, trace	
10-	S-5	11	3	1	2	24	8		Organic Silt	Soft, black Organi	c SILT		
	S-6	2	1	1	2	24	21			Soft, black Organi	c SILT		
_													
15— —	S-7	3	6	5	4	24	4		Gravel	Medium dense, gr trace wood	ay C-F GRAVEL, little o	organic silt,	
	S-8	9	8	7	6	24	1			Medium dense, gr	ay C-F GRAVEL		
_		-											
20-	S-9	6	4	4	2	24	1			Loose, gray C-F G	GRAVEL, little c-f sand, t	trace silt	
_	S-10	7	5	5	5	24	1			Medium dense, gr	ay C-F GRAVEL		
25-													
	S-11	5	3	5	2	24	0			No Recovery			
_	S-12	4	3	3	4	24	4			Loose, gray C-F G	GRAVEL, some c-f sand	, trace silt	
30-													
		-	_	-		-					V = Vane Shear T 35%, And = 35 - 5		
Total D	enetratio	•				NOTES		- / - ,		,5, 551115 20	10,0,7,110	Sheet	
			. Off					em auge	r from 0 to 10 feet, the	en switched to 4" casing.		1 of 2	
Earth:	34T	Rock:	: Uft o. of										
	mples: 1			uns: (	)							SM-001-M REV.	1/02

	or: Ch		ne gn, In	IC.	F	Fown: Project Route N Bridge N	No.: lo.:	Stam	i <b>t DOT Bori</b> ford 801 (Geo: 010		Hole No.: AA-1 Stat./Offset: Northing: Easting: Surface Elevation:	S
roject	Descript	ion: F	Recor	struc	ction	of Atla	ntic S	treet a	and Replacem	ent of Metro-No	rth Railroad Bridge N	No. 8012R
asing	Size/Typ	e: HS							SS: 1-3/8" ID		Core Barrel Type:	
	er Wt.:		Fall:			Hamme		140	Fall: 30 in.			
rouna	water Ob	oservai			PLES		rea					
Depth (ft)	Sample Type/No.		Blow	s on		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	aterial Description and Notes	(#) doitovola
30-	S-13	10	7	5	3	24	0		Gravel (con't)	No Recovery		
	S-14	2	11	6	6	24	3			trace silt	gray C-F GRAVEL, little	c-f sand,
35— —										END OF BORIN	G 34ft	
40-												
45— - -												
50— —												
55— —												
60		•	•	•							n V = Vane Shear 7 - 35%, And = 35 - 9	
arth: 3	enetratio	n in Rock:	: Oft			NOTE	S:			nen switched to 4" casin		Sheet 2 of 2
o. of oil Sau	mples: 1		o. of ore Ru	uns: (	)							SM-001-M REV. 1

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-39.dgn

SIGNATURE/ BLOCK:

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** SOUTH ASSEMBLY AREA BORING LOGS - 1

135-301 **BOR-39** 

01.09.039

Driller:	Tre	ent Roe	Con	necticu	it DOT Borir	ng Report	Hole No.: AA-29	8	
Inspect	or: Ch	ris Lane	Town:	Stam	ford		Stat./Offset:		
Engine		oDesign, Inc.	Project No	.: 135-3	301 (Geo: 010 <sup>2</sup>	1-025.01)	Northing:		
	ate: 10-		Route No.:		•	,	Easting:		
	Date: 10-		Bridge No.				Surface Elevation:		
					and Replaceme	ent of Metro-Nort	h Railroad Bridge N	lo. 8012R	
	<u> </u>	pe: HSA 3.25" ID			SS: 1-3/8" ID		Core Barrel Type:		
Hamme		Fall: in.	Hammer V	-	Fall: 30 in.		Core Darrer Type.		_
		oservations: @15 ft		VI 140	1 all. 00 ll1.				
Ground	water of	SAMPLE							
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	(in.)	Rec. (in.)	Generalized Strata Description	Ма	terial Description and Notes	Elevation (ft)	
	S É	p = 1	ا م	X	000			Ш	
0-	S-1	3 7 9 10	24	16	5" Topsoil Miscellaneous Fill	Medium dense, br trace silt, metal ar	own C-F SAND, some ond brick	c-f gravel,	
_	S-2	11 14 16 19	24	12	1	Dense, brown/gray silt	y C-F SAND and GRAV	EL, trace	
5-	S-3	8 9 9 8	24	5		Medium dense, br coarse, trace silt	own/gray C-F SAND, so	ome fine to	
_	S-4	4 3 1 1	24	11	Organic Silt	Soft, brown organi sand, trace organi	ic SILT, little c-f gravel, c fibers	trace f	
10-	S-5	WORWOH 1 1	24 2	24		Very soft, brown o	rganic SILT, trace orga	nic fibers	
	S-6	WORWOHWOH 2	24 2	22		Very soft, brown/g fibers	ray organic SILT, trace	organic	
15-	S-7	4 6 5 3	24	13	Sand		ay/brown C-F SAND, so race organic fibers	ome c-f	
20-	S-8	3 4 5 5	24	12		Loose, brown/gray	/ C-F SAND and GRAV	EL, trace	
- -									
25—	S-9	6 4 4 5	24	5		Loose, gray C-F S	SAND, some c-f gravel,	trace silt	
_	S-10	9 5 3 3	24	3		Loose, gray C-F S	SAND, some c-f gravel,	trace silt	
30-			•				V = Vane Shear T 35%, And = 35 - 5		
Total P	enetratio	· ·	NOTES:	<b>,</b>	<del>-</del>	,	, , ,	Sheet	-
								1 of 2	
Earth:	JUIL	Rock: Oft No. of							
	mples: 1							SM-001-M REV. 1/0	2

riller: nspecto		ent Roe ris Lar			Т	own:		Stam	<b>ıt DOT Bori</b> ford	ng Roport	Hole No.: AA-2 Stat./Offset:	.0	
ngine		oDesi		ic.	F	Project I	No.:	135-3	301 (Geo: 010	)1-025.01)	Northing:		
	ate: 10-				F	Route N	o.:				Easting:		
	Date: 10-					Bridge N					Surface Elevation:		
roject	Descript	ion: R	Recor	nstruc	ction o	of Atlar	ntic S	treet a	and Replacen	nent of Metro-No	rth Railroad Bridge	No. 8012R	
asing	Size/Typ	e: HS	A 3.2	25" ID	) 8	Sample	Type	/Size:	SS: 1-3/8" ID		Core Barrel Type:		
	er Wt.:		Fall:			łamme	r Wt.:	140	Fall: 30 in				
Ground	lwater Ob	servat											
Depth (ft)	Sample Type/No.		Blow Sam	s on pler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	aterial Description and Notes		Elevation (ft)
30	S-11	7	6	5	6	24	0		Sand (con't)	No Recovery			
35	S-12	1	2	3	5	24	0			No Recovery			
- - -										END OF BORIN			
40-													
45— - -													
50-													
55-													
60		-	-	-		-					n V = Vane Shear		
otal D			แบกร	USE	u. II	NOTE:		J /0,	LIUU <del>U</del> – 10 - 20	7/0, SUITIE = 20	- 35%, And = 35 -	T	
	enetratio		Vπ			INOTE	J.					Sheet 2 of 2	
arth: 3	35ft mples: 1		o. of										. 1/

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

SIGNATURE/ BLOCK:

STAMFORD

DRAWING NO.
BOR-40

01.09.040

SOUTH ASSEMBLY AREA BORING LOGS - 2

Driller:	Tı	ent Ro	ре			C	onne	cticu	t DOT Borin	g Report	Hole No.: AA-3S	
Inspect	or: C	hris La	ine			Town:		Stam	ford		Stat./Offset:	
Engine	er: G	eoDes	ign, In	C.		Project	No.:	135-3	801 (Geo: 0101	-025.01)	Northing:	
Start Da	ate: 10	)-29-14	4			Route N	lo.:				Easting:	
Finish [	Date: 10	)-29-14	4			Bridge I	No.:				Surface Elevation:	
Project	Descri	otion:	Recon	struc	ction	of Atla	ntic St	reet a	and Replaceme	ent of Metro-Nort	h Railroad Bridge No. 8012R	
Casing	Size/T	me: HS	SA 3 2	5" IC	)	Sample	r Tyne	/Size·	SS: 1-3/8" ID		Core Barrel Type:	
Hamme		урс. тк	Fall:			Hamme			Fall: 30 in.		обте вапет туре.	
		hearys				Obser		170	1 all. 50 lll.			
Ground	water	)D3GIV			PLES		<b>reu</b>					
-				7 (1711					Generalized Strata Description			Elevation (ft)
Depth (ft)	е 6		Blow	s on		(in.)	(in.)	%	aliz	Ma	terial Description	ion
pth	mp pe/l		Sam	•					iner ata scr		and Notes	vai
De	Sample Type/No.		per 6 i	ncne	es	Pen.	Rec.	RQD	Ge Str De			
0									4" Topsoil			
_	S-1	4	14	17	15	24	18		Miscellaneous Fill	Dense, brown/gray trace silt, brick frag	y C-F GRAVEL, some c-f sand, gments	
_	S-2	25	27	27	26	24	16				n/gray C-F GRAVEL, some c-f ace brick fragments	
5—	S-3	5	4	2	4	24	19			Loose, black C-F brick, glass, coal	Gravel, little c-f sand, trace silt,	
	S-4	2	3	3	1	24	16		Organic Silt	Medium organic S	ILT, trace organic fibers	
-	S-5	WO	HWOH	1	WOF	H 24	21			Very soft, black or	ganic SILT, trace organic fibers	
10	S-6	1	WOH	1	1	24	12			Very soft, black or	ganic SILT, trace organic fibers	
15— - -	S-7	1	WOH	1	1	24	23			Very soft, black/gr fibers	ay organic SILT, trace organic	
20 -	S-8	8	8	5	4	24	4		Gravel	Medium dense, gratrace silt	ay C-F GRAVEL, little c-f sand,	
	S-9	4	4	4	4	24	10			Loose, gray/brown trace silt, trace org	n C-F GRAVEL, little c-f sand, ganic fibers	
		$\dashv$										
25 <del></del> -	S-10	6	5	6	5	24	1			Medium dense, grand, trace silt	ay/brown C-F GRAVEL, little c-f	
	S-11	5	3	5	5	24	4			Loose, gray/brown trace silt	C-F GRAVEL, little c-f sand,	
30—		Sami	ole Tvr	ne.	S = 1	Split Sr	0000	C = C	Core IID = IIn	disturbed Diston	V = Vane Shear Test	_
											35%, And = 35 - 50%	
Total Po	enetrat	on in				NOTE	S:				She	
Earth: 3	32ft	Rock	c: Oft								1 of	2
No. of			lo. of		^							
Soil Sa	mples:	12 C	Core Ru	ıns: (	U						SM-001-M F	REV. 1/02

Oriller: nspect		ent Roe ris Lane			Towi			<b>ctic</b> u Stam	<b>it DOT Bori</b> ford	ng Report	Hole No.: AA-3S Stat./Offset:	
nspeci Engine		oDesign	. Inc.		Proje				301 (Geo: 010	)1-025.01)	Northing:	
	ate: 10-		, 1110.		Rout			100 0	<del>501 (<b>3</b>00. 010</del>	71 020.01)	Easting:	
	Date: 10-				Bridg						Surface Elevation:	
Project	Descript	ion: Red	constru	uctio				reet a	and Replacen	nent of Metro-Nor	th Railroad Bridge No. 801	2R
Casing	Size/Typ	e: HSA	3.25"	ID	Sam	pler	Type	/Size:	SS: 1-3/8" ID		Core Barrel Type:	
	er Wt.:		all: in.		1		· Wt.:	140	Fall: 30 in			
rounc <i>د</i>	dwater Ob	servation		None 1PLE		erv	ed					
Depth (ft)	Sample Type/No.	S	ows o ample 6 inch	n r		Pen. (In.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	aterial Description and Notes	Elevation (ft)
30— -	S-12	6 !	5 7	6		<u>-</u> 24	12		Gravel (con't)	Medium dense, g	ray/brown C-F Gravel, c-f sand,	
_										END OF BORING	G 32ft	
_												
35— —												
_												
- 40-												
_ _												
_												
45— —												
_												
50— —	-											
_												
55—												
_												
_												
60		Sample	Туре:	S =	: Split	: Sp	oon	C = 0	Core UP = U	ndisturbed Pistor	v = Vane Shear Test	
	<u> </u>					e =	1 - 10	)%,	Little = 10 - 20	0%, Some = 20	- 35%, And = 35 - 50%	
	enetratio	n in			N	OTES	S:				l l	Sheet 2 of 2
arth:	n: 32ft Rock: 0ft										2	. 01 2

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2 STAMFORD
PRAWING TITLE:

135-301

DRAWING NO.

BOR-41

SHEET NO.

01.09.041

SOUTH ASSEMBLY AREA BORING LOGS - 3 Trent Roe

Inspector: Chris Lane

mspeci	or. Cri	iis Lai	IE			i Owii.		Starri	ioiu	Stat./Offset.	
Engine	er: Ge	oDesi	gn, Ir	nc.		Project I	No.:	135-3	301 (Geo: 0101	1-025.01) Northing:	
Start D	ate: 10-	-28-14				Route N	0.:		•	Easting:	
										Surface Elevation:	
	Date: 10-					Bridge N					
Project	Descript	tion: F	Recor	nstruc	tion	of Atlar	ntic S	treet a	and Replaceme	ent of Metro-North Railroad Bridge I	No. 8012R
Casing	Size/Typ	pe: HW	/-4"			Sampler	· Tvpe	/Size:	SS: 1-3/8" ID	Core Barrel Type:	
	er Wt.: 3	<u>'</u>		2/lin		•			o. Fall: 30 in.		
								140 11	J. Fall. 30 III.		
Ground	lwater O	bservat					ed		T I		
				SAMP	LES	5			0 _		
<del>(</del>	_•								ze		) C
Depth (ft)	Sample Type/No.			vs on		(in.)	(in.)	%	Generalized Strata Description	Material Description	Elevation (ft)
pth	mp oe/			npler		Ġ.		QD	ne ata sci	and Notes	ex
De	Sa Tyl	р	er 6	inche	S	Pen.	Rec.	RG	Ge Str De		<u>B</u>
U									6" Asphalt		
_									Miscellaneous	Very dense, gray/brown C-F GRAVEL, s	ome c-f
_	S-1	30	34	24	17	24	18		Fill	sand, trace silt	
_		-									
_	S-2	17	20	13	10	24	11			Dense, brown/gray C-F Gravel and SAN	D, trace silt
5—				. •	. 0						
5	S-3	100/4	"			4	0			No Recovery	
_											
_		-							Organic Silt		
_	S-4	3	1	1	1	24	4			Soft, brown organic SILT, trace steel	
_											
10	S-5	1	4	MOLL	4	24	22			Very soft organic SILT	
10 —	S-5	1	1	WOH	1	24	22			very soft organic Ster	
_		-									
_	S-6	1	1	1	1	24	16			Very soft organic SILT	
_											
_											
4.5											
15—									Silt	Soft, gray clayey SILT, trace c-f gravel, t	race
_	S-7	1	WOH	1 2	5	24	15			organic	
_		-									
_											
_											
00											
20 —									Gravel		
_	S-8	5	5	6	5	24	0			No Recovery	
_		-									
_	S-9	5	7	6	5	24	0			No Recovery	
			•	J	~	- '	J			•	
25—										Medium dense, gray C-F GRAVEL, some	e c-f sand
_	S-10	4	6	5	5	24	1			trace silt	5 C-1 Sand,
_		_									
_	S-11	6	6	6	6	24	2			Medium dense, gray C-F GRAVEL, some	e c-f sand,
	0		O	O	O	27	_			trace silt	
_											
30											
		•	•	•						disturbed Piston V = Vane Shear	
		Propor	tions	SUsed	d: T	race =	1 - 10	)%, I	Little = $10 - 20^{\circ}$	%, Some = 20 - 35%, And = 35 -	50%
Total P	enetratio	n in				NOTES	 S:				Sheet
			0.5								1 of 2
Earth:	34†t	Rock:									
No. of	malas: 1		o. of	^	١						CM 004 M DEV 4/00
SOII Sa	mples: 1	13 C	JI E K	uris: U	,						SM-001-M REV. 1/02

**Connecticut DOT Boring Report** 

Stamford

Town:

Hole No.: AA-4S

Stat./Offset:

Driller:	Tre	ent Ro	 е			Co	onne	ecticu	ıt DOT Boriı	ng Report	Hole No.: AA-4S	
Inspecto		nris Lar			Т	own:		Stam			Stat./Offset:	
Enginee		eoDesi		ıc.		Project I	No.:		301 (Geo: 010	1-025.01)	Northing:	
Start Da						Route N				,	Easting:	
Finish D						Bridge N					Surface Elevation:	
				nstruc	I			treet	and Replacem	ent of Metro-No	rth Railroad Bridge No. 801	2R
Casing	<u> </u>								SS: 1-3/8" ID		Core Barrel Type:	
Hamme		-		24in					b. Fall: 30 in.		Core Barrer Type.	
Ground												
					PLES							
									Generalized Strata Description			n (ft)
L (fl	Se No			s on		(in.)	(in.)	%	a a ript	M	aterial Description and Notes	atio
Depth (ft)	Sample Type/No.	n	Sam er 6 i	ipler inche	ıs.	Pen.	Rec.	RQD	ene trata esc		and Notes	Elevation
	ŠΓ			1110110	.0	ا م	<u> </u>	Ĭ.	0 W Q			
30-	S-12	4	4	6	4	24	2		Gravel (con't)	Medium dense, q sand, trace silt	gray/brown C-F GRAVEL, some	c-f
	S-13	4	4	7	7	24	2			Medium dense, of sand, trace silt	gray/brown C-F GRAVEL, some	c-f
_										END OF BORIN	G 34ft	
35—												
40-												
40												
45-												
_												
_												
50-												
55—												
60												
		_	_	-		-					n V = Vane Shear Test - 35%, And = 35 - 50%	
Total Pe						NOTE		- ,	- <del></del>	, <u> </u>		Sheet
Earth: 3		Rock	· Off									2 of 2
No. of	J-716		o. of			$\dashv$						
Soil Sar	mples:	13 C	ore R	uns: (	)						SM-001	I-M REV. 1/02

# FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-42.dgn

SIGNATURE/ BLOCK:

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** SOUTH ASSEMBLY AREA

**BOR-42** 01.09.042 **BORING LOGS - 4** 

135-301

Driller:	Mik	ce St. John	C	onne	cticu	ıt DOT Borir	ng Report	Hole No.: AA-1N	
Inspect	or: Ch	ris Lane	Town:		Stam	ford		Stat./Offset:	
Engine	er: Ge	oDesign, Inc.	Projec	t No.:	135-3	301 (Geo: 0101	1-025.01)	Northing:	
Start D	ate: 11-	-6-14	Route	No.:				Easting:	
Finish [	Date: 11-	7-14	Bridge	No.:				Surface Elevation:	
Project	Descript	ion: Reconstruction	of Atla	antic S	treet a	and Replaceme	ent of Metro-Nort	th Railroad Bridge No. 8012R	
Casing	Size/Typ	pe: NW-3"	Sampl	er Type	/Size:	SS: 1-3/8" ID		Core Barrel Type: NQ	
Hamme	er Wt.: 3	00 lb. Fall: 24in.	Hamm	er Wt.:	140 I	b. Fall: 30 in.			
Ground	lwater Ob	oservations: @None	Obse	rved					
		SAMPLE	S			<b>ہ</b> ا			(£)
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	iterial Description and Notes	Elevation (
0-	S-1	100/4"	4	2		2" Topsoil	•	n C-F SAND, little silt, trace roots	
_	S-2	32 100/1"	7	7		Miscellaneous Fill		n/gray C-F SAND, some c-f gravel,	
5— -	S-3 S-4	10 18 33 13 100/6"	24	14 5			•	SAND and GRAVEL, trace silt n/gray C-F SAND, some f gravel,	
_	S-5	14 11 14 12	24	8			gravel, brick, trace	ed/orange C-F SAND, some f	
10-	S-6	100/5"	5	4			trace silt	C-F SAND, some c-f gravel, brick	
15— - -	S-7	16 34 35 100/	1" 19	10		Gravel	Very dense, C-F ( brick	GRAVEL, little c-f sand, trace silt,	
_						Bedrock			
20-		-							
	C-1		60	54	73		Fair Quality, Hard GNEISS [Core Times (min/	, Slightly Weathered, black fine, (ft): 8, 15, 4, 5, 4]	
25—									
	C-2		60	60	60		Fair Quality, Hard GNEISS [Core Times (min/	, Slightly Weathered, black fine, (ft): 4, 5, 14, 4, 5]	
30							END OF BODING	: 30ft	
								<sup>3 30ft</sup> = Vane Shear Test - 35%, And = 35 - 50%	
Total P	enetratio	n in	NOT		not of ca	ring changed the Lit C	Standard nanotration to the	She	
Earth: 2	20ft	Rock: 10ft				ring changed the bit. S recovery. began coring	Standard penetration test g at 20 feet.	1 of	1
No. of	moles. O	No. of						014 004 14 5	
<sub> </sub> อบแ อล	mples: 8	Core Runs: 2						SM-001-M F	K⊏V. 1/UZ

	ate: 10-					Project Route N			301 (Geo: 010 <sup>-</sup>		Northing:  Easting:	
	Date: 10-			otruc		Bridge N		troot 1	and Poplacom	ont of Motro Nor	Surface Elevation: th Railroad Bridge No. 801	)D
	Size/Typ								SS: 1-3/8" ID	ent of Metro-Nor	Core Barrel Type:	<u> </u>
	er Wt.:	<i>.</i>	Fall:			łamme			Fall: 30 in.		Core Barrer Type.	
round	water Ob	servat	ions:	@N	one (	Observ	ed					
Depth (ft)	Sample Type/No.	р		s on		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	terial Description and Notes	(#) acitoxol
0-	S-1	3	6	10	11	24	10		4" Topsoil Miscellaneous Fill	Medium dense, but trace brick, trace	rown C-F SAND, little c-f gravel, silt	
_	S-2	10	12	14	16	24	11			Medium dense, C	-F SAND and GRAVEL, trace si	lt
5-	S-3	14	17	18	25	24	2			Dense, brown C-F silt	SAND, some C-F Gravel, trace	•
_	S-4	10	17	18	20	24	14		Stratified Sand and Gravel	trace silt	t brown C-F SAND, little f grave	
_	S-5	25	32	35	25	24	5			silt	n C-F SAND and GRAVEL, trac	
10	S-6	11	100/3'	•		9	6			Very dense, brow weathered rock, to	n F SAND, little c-f gravel, trace race silt	
_										END OF BORING	11.5ft	
15— - -												
20-												
_ 25— _ _												
30		•	-	-							V = Vane Shear Test	
ntal P	r enetratio		แบบร	USE	u. II	NOTE	S:		t, pulled ahead 8" with		35%, And = 35 - 50%	Sheet

DESIGNER/DRAFTER:

J. IVES

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

TO SCALE AS NOTED

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB\_MSH\_0135\_0301\_BOR-43.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

STAMFORD

DRAWING TITLE:

NORTH ASSEMBLY AREA
BORING LOGS - 1

PROJECT NO.

135-301

DRAWING NO.

BOR-43

SHEET NO.

01.09.043

nspect		ris Lane			own:	<b>.</b> .	Stam		1 005 04\	Stat./Offset:		
ingine		oDesign, In	IC.		roject		135-3	301 (Geo: 010	1-025.01)	Northing:		
	ate: 10-				oute N					Easting: Surface Elevation:		
	Date: 10-		otruo		ridge N		troot o	and Danlacam	ant of Matra Na		No. 9012D	
	•							•	ent of Metro-Inc	orth Railroad Bridge I	NO. 60 12R	
		e: HSA 3.2			-			SS: 1-3/8" ID		Core Barrel Type:		
	er Wt.:	Fall:			amme		140	Fall: 30 in.				
Ground	lwater Ot	servations:			bserv	'ed						
(ff.)	le No.	Blow	SAMP vs on		(in.)	(in.)	%	Generalized Strata Description	N	laterial Description		lion (ft)
Depth	Sample Type/No.	Sam per 6 i	•	S	Pen. (	Rec. (	RQD	Genel Strata Descr		and Notes		Flevation
0-	S-1	7 35	29	18	24	17		Topsoil Miscellaneous Fill		wn/gray C-F Gravel, som orick, trace asphalt	ne c-f sand,	
	S-2	32 35	58	47	24	10		Stratified Sand and	Very dense, bro trace silt	wn/gray C-F Gravel and	SAND,	
_	S-3	21 100/4'			10	5		Gravel		y C-F Gravel, some c-f S	Sand, trace	
5— —									END OF BORIN	IG 4.9ft		
_												
10-												
_												
4.5												
15— _												
_												
_												
20-												
_												
_												
25-												
-												
30									•			
			•							on   V = Vane Shear <sup>-</sup> ) - 35%,   And = 35 -		
otal P	enetratio			<b>м.</b> 11	NOTE	S:					Sheet	
arth:	4.9ft	Rock: Oft			Auger	rerusal a	al 4.9 106	a, pulleu ariead 4 feet	t with auger refusal at 4	+.5 I <del>CC</del> I.	1 of 1	

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE D. COSTELLO THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION Filename: ...\SB\_MSH\_0135\_0301\_BOR-44.dan REV. DATE SHEET NO. Plotted Date: 3/24/2016

**Connecticut DOT Boring Report** 

Stamford

Sampler Type/Size: SS: 1-3/8" ID

Hammer Wt.: 140 Fall: 30 in.

RQD

Rec. (in.)

14

10 8

24 8

Project No.: 135-301 (Geo: 0101-025.01)

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

4" Topsoil

Stratified

Sand and

Miscellaneous little brick, trace silt

Town:

Route No.:

Bridge No.:

24

Hole No.: AA-3N

Surface Elevation:

Core Barrel Type:

**Material Description** 

and Notes

Medium dense, brown C-F GRAVEL, some f sand,

Very dense, brown C-F GRAVEL, little f sand, little brick, trace silt

Very dense, brown F SAND, some c-f gravel, trace

Elevation (ft)

Sheet

1 of 1

SM-001-M REV. 1/02

SIGNATURE/ BLOCK:

Stat./Offset:

Northing:

Easting:

Tim Sabo

Casing Size/Type: HSA 3.25" ID

Fall: in.

Blows on

Sampler

per 6 inches

100 56 49 27

10 19 32

SAMPLES

Groundwater Observations: @None Observed

60 100/4"

Inspector: Chris Lane

Start Date: 10-17-14

Finish Date: 10-17-14

S-1

S-2

S-3

Hammer Wt.:

Engineer: GeoDesign, Inc.

Driller:

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 BOR-44 **NORTH ASSEMBLY AREA** 01.09.044

Border Version: 11/14/08

**BORING LOGS - 2** 

Trent Roe

Casing Size/Type: HSA 3.25" ID

Fall: in.

Blows on

Sampler

per 6 inches

7 24 11 8

57 75 51 38

22 100/4"

SAMPLES

9 13 30 32 24 18

Groundwater Observations: @None Observed

Inspector: Chris Lane

Start Date: 10-20-14

Finish Date: 10-20-14

S-1

S-2

S-3

S-4

Hammer Wt.:

Engineer: GeoDesign, Inc.

Driller:

25-

SIGNATURE/ BLOCK:

Driller:	Mik	ke St.	John			Co	onne	cticu	ıt DOT Borir	ng Report	Hole No.: AA-6N				
Inspect		ris Lar			-	Town:		Stam			Stat./Offset:				
Engine	er: Ge	oDesi	gn, Ir	nc.	F	Project	No.:	135-3	301 (Geo: 010 <sup>2</sup>	1-025.01)	Northing:				
Start D	ate: 11-	-7-14			F	Route N	lo.:				Easting:				
Finish [	Date: 11-	-10-14			- E	Bridge <b>I</b>	No.:				Surface Elevation:				
Project	Descript	tion: F	Recor	nstru	ction	of Atla	ntic S	treet a	and Replacem	ent of Metro-Nor	th Railroad Bridge No. 8012R				
Casing	Size/Typ	oe: NV	V-3"		(	Sample	r Type	/Size:	SS: 1-3/8" ID		Core Barrel Type: NQ				
Hamme	er Wt.: 3	00 lb.	Fall:	24in	.   I	Hammer Wt.: 140 lb. Fall: 30 in.									
Ground	dwater Ob	bservat					/ed		,			T			
				SAM	PLES	<u> </u>		1	р <sub>6</sub> с			(£)			
Depth (ft)	Sample Type/No.	р	San	vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ma	aterial Description and Notes	Elevation (ft)			
0-									4" Topsoil		0.5.04115.1141.114.1.15	-			
_	S-1	4	6	12	35	24	16		Miscellaneous Fill	Medium dense, bi gravel, brick, cond	rown C-F SAND, little silt, trace f crete				
_	S-2	74	58	51	20	24	15			Very dense, brow brick fragments, g	n C-F Gravel and SAND, trace silt, glass				
5—	S-3	9	9	6	10	24	10				rown C-F SAND, some c-f gravel, agments, concrete				
_	S-4	18	18	26	22	24	0			No Recovery					
-	S-5	20	44	55	38	24	10			Very dense, brow trace silt	n/gray C-F SAND and GRAVEL,				
10-	S-6	23	25	23	12	24	0			No Recovery					
_	S-7	8	53	14	12	24	7			_	n/red/gray BRICK/CONCRETE, e f gravel, trace wood, glass, shell				
15—	S-8	100/6	"			6	6			Very dense, CON	CRETE/BRICK/GRAVEL				
20-	C-1					48	48	75	Bedrock	Good Quality, Har GNEISS [Core Times (min/	rd, Slightly Weathered, black fine, /ft): 3, 5, 9, 6]				

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

**GNEISS** 

Total Penetration in	NOTES: Hard from 15 to 20 feet. Standard penetration test performed at 20 feet with no penetration	Sheet 1 of 1
Earth: 20ft Rock: 9ft	or recovery. began coring at 20 feet.	1 01 1
No. of No. of Soil Samples: 9 Core Runs: 2		SM-001-M REV. 1/02

60

57 73

FINAL PLANS FOR REVIEW

Good Quality, Hard, Slightly Weathered, black fine,

[Core Times (min/ft): 8, 4, 4, 8, 6]

**END OF BORING 29ft** 

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-45.dgn

**Connecticut DOT Boring Report** 

Stamford

Sampler Type/Size: SS: 1-3/8" ID

RQD

Project No.: 135-301 (Geo: 0101-025.01)

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Fall: 30 in.

4" Topsoil

Stratified

Sand and Gravel

Town:

Route No.:

Bridge No.:

24

24

10 | 7

Hammer Wt.: 140

Rec. (in.)

14

12

Hole No.:

Stat./Offset:

Surface Elevation:

Core Barrel Type:

**Material Description** 

and Notes

Dense, brown C-F GRAVEL, little c-f sand, trace silt,

Very dense, gray/brown C-F GRAVEL, some f sand,

Very dense, light brown C-F GRAVEL, little c-f sand,

4" Topsoil
Miscellaneous
Dense, brown/gray C-F GRAVEL, some c-f sand, trace silt

trace asphalt/charred wood/coal

END OF BORING 6.83ft

trace silt

Northing:

Easting:

AA-5N

Elevation (ft)

Sheet

1 of 1

SM-001-M REV. 1/02

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 **BOR-45** 

01.09.045

Border Version: 11/14/08

**NORTH ASSEMBLY AREA BORING LOGS - 3** 

Driller:	Tir	m Sabo	)			Co	onne	cticu	ıt DOT Borir	ng Report	Hole No.: AA-8N	
Inspect	tor: Ch	nris Lan	ie		Т	own:		Stam	ford		Stat./Offset:	
Engine	er: Ge	eoDesig	gn, In	IC.	Р	roject I	No.:	135-3	301 (Geo: 010 <sup>2</sup>	1-025.01)	Northing:	
Start D	ate: 11	-18-14			R	oute N	lo.:				Easting:	
Finish [	Date: 11	-19-14			В	ridge N	No.:				Surface Elevation:	
Project	Descrip	otion: R	ecor	struc	ction o	f Atlar	ntic St	reet a	and Replacem	ent of Metro-Nort	th Railroad Bridge No. 8012R	
Casing	Size/Ty	pe: NW	/-3"		S	amplei	r Type	/Size:	SS: 1-3/8" ID		Core Barrel Type: NQ	
Hamme	er Wt.: 3	300 lb.	Fall:	24in	. Н	amme	r Wt.:	140 lk	o. Fall: 30 in.			
Ground	dwater O	)bservati	ions:	@N	lone C	)bserv	'ed					
			S	SAMF	PLES				_ o			ft)
Depth (ft)	Sample Type/No.	po	Blow Sam er 6 i	pler		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Ма	iterial Description and Notes	Elevation (ft)
0-									6" Asphalt			
_	S-1	35	20	27	29	24	15		Miscellaneous Fill		SAND and GRAVEL, trace silt	
_ _	S-2	68	59	41	32	24	14			Very dense, brown trace silt	n C-F SAND, some c-f gravel,	
ე⊣		$\neg$										

Very dense, brown C-F SAND and GRAVEL, trace 27 15 39 100/2" 20 Very dense, gray/brown C-F GRAVEL, some c-f sand, trace silt 52 61 54 36 13 Dense, brown C-F SAND, some c-f gravel, trace silt 19 23 21 26 Dense, brown C-F SAND, little c-f gravel, trace silt, 35 23 23 22 24 12 wood, brick Stratified Sand & Gravel 15-Medium dense, brown C-F SAND, little silt 12 5 6 6 24 12 S-7 20-Bedrock Excellant Quality, Hard, Slightly Weathered, black fine, GNEISS 60 55 92 [Core Times (min/ft): 6, 7, 11, 9, 5] 25 **END OF BORING 25ft** Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test

Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration	n in	NOTES: Inferred cobbles from 11 to 14 feet. Standard penetration test performed at 20 feet with no
Earth: 20ft	Rock: 5ft	penetration or recovery. began coring at 20 feet.
No. of Soil Samples: 8	No. of Core Runs: 1	

FINAL PLANS FOR REVIEW

SM-001-M REV. 1/02

Core Runs: 2

Soil Samples: 7

REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2

STAMFORD

DRAWING NO.
BOR-46
SHEET NO.

01.09.046

NORTH ASSEMBLY AREA BORING LOGS - 4

Sheet

1 of 1

SM-001-M REV. 1/02

Driller:	Tr	ent Ro	е			Co	Connecticut DOT Boring Report Hole No.: AA-9N									
Inspect	or: Cł	nris Lar	ne			Town:		Stam	ford	Stat./Offset:						
Engine	er: G	eoDesi	gn, Ir	nc.		Project	No.:	135-3	301 (Geo: 010 <sup>2</sup>	1-025.01) Northing:						
Start D	ate: 10	-21-14				Route N	lo.:			Easting:						
Finish [	Date: 10	-21-14				Bridge N	۱o.:			Surface Elevation:						
Project	Descrip	tion: F	Recoi	nstruc	ction	of Atla	ntic St	treet a	and Replacem	ent of Metro-North Railroad Bridge N	o. 8012R					
Casing	Size/Ty	pe: HS	A 3.2	25" IC		Sample	r Type	/Size:	SS: 1-3/8" ID	Core Barrel Type:						
Hamme	er Wt.:		Fall:	in.		Hamme	r Wt.:	140	Fall: 30 in.							
Ground	lwater C	bservat		@20 SAMF		Wet sar	nple									
Depth (ft)	Sample Type/No.	p	San	vs on npler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)					
0-	S-1	9	20	36	42	24	16		4" Topsoil Fill	Very dense, light brown SAND, some c-f g trace silt	ıravel,					
	S-2	56	67	45	46	24	17			Very dense, light brown F SAND, little c-f of trace silt	gravel,					
5-	S-3	38	37	100		18	14			Very dense, light brown C-F SAND, some trace silt	c-f gravel,					
_	S-4	18	23	18	16	24	14			Dense, brown C-F SAND and GRAVEL, tr	ace silt					
10—	S-5	19	26	41	24	24	17			Very dense, dark gray/brown C-F GRAVE sand, trace silt, trace brick, coal, organic f						
	S-6	8	11	5	4	24	16			Medium dense, dark gray C-F GRAVEL, li sand, trace silt, coal, slag, metal, brick	ttle c-f					
_ _ 15—									Sand and Gravel							
	S-7	19	30	29	25	24	17			Very dense, brown C-F GRAVEL, little c-f trace silt	sand,					
20-	S-8	7	10	26	31	24	14		Bedrock	Dense, brown/gray Weathered ROCK and gravel, little c sand, trace silt	l c-f					
_ _ _ 25—	S-9	58	100/4	. <b>"</b>		10	7			Very dense, gray C-F GRAVEL, little f san silt, weathered rock END OF BORING 23.8ft	d, trace					
25— — — — — 30—																
		-	•	•						ndisturbed Piston V = Vane Shear Te %, Some = 20 - 35%, And = 35 - 5						
Total P	enetrati	on in				NOTE: Auger	S: refusal a	nt 23.9 fe	eet.		Sheet					
Earth: 2	23.8ft	Rock	: Oft			, tagor	. 5.4041 6	5.0 10	. = ••		1 of 1					
No. of Soil Sa	moles		o. of ore R	uns. (	<u> </u>						SM-001-M REV. 1/02					

FINAL	<b>PLANS</b>	<b>FOR</b>	<b>REVIEW</b>
	/ \ \	. •	

DESIGNER/DRAFTER:

J. IVES

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TO SCALE AS NOTED

DESIGNER/DRAFTER:

J. IVES

CHECKED BY:

DEPARTMENT OF TRANSPORTATION

Filename: ...\SB\_MSH\_0135\_0301\_BOR-47.dgn

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

STAMFORD

DRAWING TITLE:

NORTH ASSEMBLY AREA
BORING LOGS - 5

135-301

DRAWING NO.
BOR-47

SHEET NO.
01.09.047

SHEET NO. Plotted Date: 3/24/2016

**Connecticut DOT Boring Report** 

Stamford

Sampler Type/Size: SS: 1-3/8" ID

RQD

Project No.: 135-301 (Geo: 0101-025.01)

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Fall: 30 in.

Town:

Route No.:

Bridge No.:

Pen. (in.)

Hammer Wt.: 140

Rec. (in.)

AA-10N

Elevation (ft)

Sheet

1 of 2

SM-001-M REV. 1/02

Filename: ...\SB\_MSH\_0135\_0301\_BOR-48.dgn

Hole No.:

Stat./Offset:

Surface Elevation:

Core Barrel Type:

**Material Description** 

and Notes

Northing:

Easting:

Trent Roe

Chris Lane

Casing Size/Type: HSA 3.25" ID

Groundwater Observations: @20 ft

Fall: in.

Blows on

Sampler

per 6 inches

SAMPLES

Engineer: GeoDesign, Inc.

Start Date: 10-21-14

Finish Date: 10-22-14

Hammer Wt.:

Driller:

riller:		ent Roe		onne		ıt DOT Bori	ng Report	Hole No.: AA-10N		
spect		ris Lane	Town:	NI.	Stam		1 005 01)	Stat./Offset:		
nginee		oDesign, Inc.	Project		135-3	301 (Geo: 010	1-025.01)	Northing:		
	ate: 10- Date: 10-		Route					Easting: Surface Elevation:		
			Bridge		troot a	and Replacem	ent of Metro-No	orth Railroad Bridge No. 8012R		
		be: HSA 3.25" ID				SS: 1-3/8" ID		Core Barrel Type:		
	er Wt.:	Fall: in.	Hamm	er VVt.:	140	Fall: 30 in.				
rouna 	iwater Oi	bservations: @201 SAMPL								
		SAME				Ged on			4	
(ff)	е 6	Blows on	(in.)	(in.)	%	aliz	M	laterial Description	) (	
Depth	Sample Type/No.	Sampler	). 	Pen. (in.) Rec. (in.) RQD % Generalized Strata Description a part of the control				and Notes	7	
_ 	Sa Ty	per 6 inches	Pen.	Rec.	RQD	Str			Elevation (#)	
30						Stratified	Very dense, brow	wn C-F SAND, trace silt, trace f		
-	S-10	38 59 100/5"	17	12		Sand &	gravel			
_						Gravel (con't)				
35		-					Verv dense, grav	y C-F GRAVEL, little f sand, trace		
	S-11	34 81 33 2	23 24	12			silt	,		
40							Maria da casa da casa	O F ODAVIEL 1991 ( com 1 )		
40	S-12	46 100/5"	11	9			very dense, gray	y C-F GRAVEL, little f sand, trace		
							END OF BORIN	G 43ft		
45-										
_										
50										
_										
-										
$\dashv$										
55										
$\exists$										
$\exists$										
60 ─		Sample Type: S	= Split S	noon	C = C	Core IIP = III	ndisturbed Pisto	n V = Vane Shear Test		
			•	•				) - 35%, And = 35 - 50%		
ntal D	enetratio	·	NOT		- /U, I			Sheet	<u> </u>	
					s at 25 fe	et.		2 of 2		
arth: 4 o. of	431[	Rock: Oft No. of								
	mples: 1	2 Core Runs: 0						SM-001-M RE	V.	

### FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO - | - | -\_ | - | -**DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 **BOR-48** 

01.09.048

**NORTH ASSEMBLY AREA BORING LOGS - 6** 

REV. DATE

Driller:		ent Ro				C			ıt DOT Borir	ng Report	Hole No.: AA-11N	
Inspect		ris Lar				Town:		Stam			Stat./Offset:	
Engine		oDesi		nc.		Project		135-3	301 (Geo: 010 <i>1</i>	1-025.01)	Northing:	
	ate: 10-					Route N					Easting:	
	Date: 10-			<b>-</b>	-1: - :-	Bridge I			and Davidson	ant of Matric Name	Surface Elevation:	
	-								•	ent of Metro-Nor	th Railroad Bridge No. 8012R	
	Size/Typ	be: HS			)				SS: 1-3/8" ID		Core Barrel Type:	
Hamme			Fall:			Hamme	r Wt.:	140	Fall: 30 in.			
Ground	lwater Ol	oservat		@2 SAMF		S	T	T	р <sub>С</sub>			(ft)
(#)	0.0		Blow	vs on		(in.)	(in.)	. 0	Generalized Strata Description	Ma	Iterial Description	
Depth (ft)	Sample Type/No.			npler		(j.		%	nera nta ccrip	TVIC	and Notes	Elevation
Эер	San Typ	р		inche	es	Pen.	Rec.	RQD	Ger Stra			∃le\
0-						_		_				_
	S-1	4	14	34	42	24	19		4" Topsoil Miscellaneous Fill	silt	n C-F SAND, little f gravel, trace	
_	S-2	56	40	100		18	13			Very dense, light I trace silt	orown C-F GRAVEL, some f sand,	
5-	S-3	45	35	41		18	14			Very dense, gray silt	C-F GRAVEL, little f sand , trace	
_	S-4	40	48	30	30	24	18			Very dense, gray/ trace silt, trace roo	brown C-F SAND and GRAVEL, ots	
-	S-5	11	13	15	40	24	15			Medium dense, gr trace silt	ay C-F GRAVEL, some c-f sand,	
10-	S-6	52	19	12	12	24	13			Dense, dark gray silt, wood, glass, d	C-F SAND, some c-f gravel, trace coal	
_												
15— — —	S-7	10	26	28	26	24	14		Stratified Sand & Gravel	Very dense, gray/ trace silt	brown C-F GRAVEL and SAND,	
_												
20-	S-8	4	7	7	7	24	12			Medium dense, gr gravel, trace silt	ray/brown C-F SAND, little c-f	
		_								J. 23. 23, 2.300 Ont		
25—										Modium dans	roy/brown C E CAND 1:41- family	
	S-9	3	9	14	15	24	12			trace silt	ray/brown C-F SAND, little f gravel,	
_												
_												
30-		Co:	lo T	,DC:	c –	Colit C	2005	C = C	Coro IID - II-	diaturhad Dieta-	\/ - \/one Cheer Teet	
		•	•	•							V = Vane Shear Test	
T-( ! -			แบบเร	. USE	u.			J 70,	LIUU <del>U</del> – 10 - 20	/o, SUME – ZU -	· 35%, And = 35 - 50%	1
	enetratio					NOTE Inferre		er from 3	.5 to 4.5 feet.		Shee	
Earth:	43.3ft	Rock:										-
No. of Soil Sa	mples: 1		o. of ore R	uns: (	)						SM-001-M RE	EV. 1/02
	•					1						

oject	Descript	tion: R	lecor	nstruc	ction o	of Atla	ntic S	treet a	and Replacen	nent of Metro-No	orth Railroad Bridge No. 8012R	
	Size/Typ er Wt.:		A 3.2 Fall:			ample Iamme			SS: 1-3/8" ID Fall: 30 in		Core Barrel Type:	
	lwater Ob		ions:	@20	0 ft				1			
Depth (It)	Sample Type/No.		Blow Sam	s on opler inche		Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	M	laterial Description and Notes	
30 —	S-10	2	3	4	5	24	13		Stratified Sand & Gravel (con't)	Loose, brown F	SAND, trace silt	
35— — —	S-11	14	31	20	49	24	12			Very dense, gray silt	y C-F GRAVEL, little f sand, trace	
40 <u> </u>	S-12	22	15	9	8	24	12			Medium dense, silt	gray C-F GRAVEL and SAND, trace	
- - 45— - -	S-13	100/1"	•			1	0			No Recovery END OF BORIN	G 43.3ft	
50— - -												
55— - -												
60		Sampl	le Tv	ne:	S = S	plit Sr	oon	C = 0	Core UP = U	ndisturbed Pisto	n V = Vane Shear Test	

STATE OF CONNECTICUT THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. J. IVES D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION

Filename: ...\SB\_MSH\_0135\_0301\_BOR-49.dgn

SHEET NO. Plotted Date: 3/24/2016

SIGNATURE/ BLOCK:

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

135-301 **BOR-49** 01.09.049

NORTH ASSEMBLY AREA BORING LOGS - 7

REV. DATE

Trent Roe

Chris Lane

Casing Size/Type: HSA 3.25" ID

Groundwater Observations: @19 ft

Fall: in.

Blows on

Sampler

per 6 inches

16 100/5"

59 37 100/5"

9

SAMPLES

20

24

11

17 | 12

Engineer: GeoDesign, Inc.

Start Date: 10-23-14

Finish Date: 10-23-14

S-1

S-2

S-3

Hammer Wt.:

Driller:

riller:		ent Ro					JIIIIE		ıt DOT Bori	ng report	Hole No.: AA-12N	
specto		ıris Lar		00		own:	Na ·	Stam		11 025 01)	Stat./Offset:	
nginee	er: Ge ate: 10	eoDesi		IU.		Project Route N		100-3	301 (Geo: 010	71-023.01)	Northing:  Easting:	
	Date: 10					Sridge N					Surface Elevation:	
				nstruc				treet a	and Renlacen	nent of Metro-No	orth Railroad Bridge No. 8012R	
	·								•			
	Size/Ty <sub>l</sub> er Wt.:	pe: no	A 3.∠ Fall:			ampie Iamme			SS: 1-3/8" ID Fall: 30 in		Core Barrel Type:	
	water O	hearvat				тапппе	1 VV L	140	rall. 30 III	•		
Iound	water O	D3GI VAL			PLES							
									Generalized Strata Description			(#) GO:+O: (OID
Depth (ft)	Sample Type/No.			s on		(in.)	(in.)	%	rali; a ripti	l N	Material Description	(
epth	amp 'pe/	n		npler inche		Pen.	Rec.	RQD	ene rata		and Notes	!
طّ	Sa		CI O	ПСПЕ	:5	Pe	A A	R S	Q 22 Q			ן נ
30									Sand	Medium dense	gray C-F SAND, little f gravel, trace	
_	S-10	4	7	7	9	24	12		(con't)	silt	gray O-1 OAND, little I graver, trace	
25												
35	S-11	5	7	8	7	24	13			Medium dense	gray F SAND, little silt	
	<u> </u>		,	O	,	24	13			Wiedlam dense,	gray 1 37 a 12, mais one	
_												
_												
40												
	S-12	2	4	6	10	24	16			Stiff, gray C-F S	SDAND, some c-f trace f gravel, trace	
_												
_												
45		-			_					Medium dense.	gray C-F SDAND, trace f gravel,	
	S-13	18	15	12	9	24	12			trace silt		
50	0.44	100/5	,,			_				Weathered Roc	l <sub>r</sub>	
	S-14	100/5				5	5			END OF BORIN		
_												
_												
55												
$\dashv$												
$\dashv$												
60─		Samn	le Tv	ne:	S = S	Split Sn	) OOn	C = C	Core UP=U	ndisturbed Pisto	on V = Vane Shear Test	J
		•	•	•							0 - 35%, And = 35 - 50%	
otal Pe	enetratio				- '	NOTE		- <b>- ;</b>		,	Shee	t t
	50.4ft	Rock:	Ωft								2 of	
<i>a</i> rui. <b>\</b>	JU. TIL	NOCK.	o. of									

### FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO \_ | - | -**DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION REV. DATE SHEET NO. Plotted Date: 3/24/2016 Filename: ...\SB\_MSH\_0135\_0301\_BOR-50.dgn

**Connecticut DOT Boring Report** 

Stamford

Sampler Type/Size: SS: 1-3/8" ID

RQD

Hammer Wt.: 140

Rec. (in.)

19

8

Project No.: 135-301 (Geo: 0101-025.01)

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Fall: 30 in.

4" Topsoil

Miscellaneous trace silt, trace roots

trace silt

Town:

Route No.:

Bridge No.:

Hole No.:

Stat./Offset:

Surface Elevation:

Core Barrel Type:

**Material Description** 

and Notes

Medium dense, light brown F SAND, little f gravel,

Very dense, light brown F SAND, some f gravel,

Very dense, gray C-F GRAVEL, some f sand, trace

Northing:

Easting:

AA-12N

Elevation (ft)

Sheet 1 of 2

SM-001-M REV. 1/02

SIGNATURE/ BLOCK:

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** 

PHASE 2

**STAMFORD** 

**NORTH ASSEMBLY AREA BORING LOGS - 8** 

**BOR-50** 01.09.050

135-301

Tim Sabo

Inspector: Chris Lane

Start Date: 11-20-14

Finish Date: 11-24-14

Casing Size/Type: NW-3"

S-1

S-2

Hammer Wt.: 300 lb. Fall: 24in.

Groundwater Observations: @None Observed

Blows on

Sampler

per 6 inches

15 50 49 36

21 28 10 24

SAMPLES

Engineer: GeoDesign, Inc.

Driller:

Driller: Tim Sabo		Connecticut DOT Boring Report					Hole No.: AA-13N	
Inspect	Town: Stamford					Stat./Offset:		
Engine	Project No.: 135-301 (Geo: 0101-025.01)					Northing:		
Start D	Route No.:					Easting:		
Finish [	Bridge N	Surface Elevation:						
Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R								
Casing	Sample	r Type	Core Barrel Type: NQ					
Hamme	Hammer Wt.: 140 lb. Fall: 30 in.							
Ground	water Observations: @None	e Observ	served					
SAMPLES								ft)
Depth (ft)	Blows on Sampler	(in.)	(in.)	% (	Generalized Strata Description	Material Description estion and Notes		ation (
	Sampler per 6 inches	Pen.	Rec.	RQD	Gen Strat Desc			Elev
30-	S-10 42 59 100/1"	13	3		Stratified Sand & Gravel (con't)	Dense, brown C-F SAND and m-f gravel, trace silt		
_					(COITT)			
35-	S-11 70 100/1"	7	6			Very dense, browi silt	n C-F SAND and m-f gravel, trace	
			END OF BORING 35.7ft				35.7ft	
_								
40-								
_								
_								
45								
_								
50-								
_								
_								
_								
55-								
_								
_								
60-								
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%								
Total Penetration in			S:	Shee				
Earth: Rock:				2 of 2	2			
No. of	No. of							<b></b>
Soil Samples: Core Runs:							SM-001-M RE	-v. 1/02

## FINAL PLANS FOR REVIEW

STATE OF CONNECTICUT J. IVES THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. D. COSTELLO **DEPARTMENT OF TRANSPORTATION** SCALE AS NOTED REVISION DESCRIPTION Filename: ...\SB\_MSH\_0135\_0301\_BOR-51.dan REV. DATE SHEET NO. Plotted Date: 3/24/2016

**Connecticut DOT Boring Report** 

Stamford

Sampler Type/Size: SS: 1-3/8" ID

Hammer Wt.: 140 lb. Fall: 30 in.

RQD

Rec. (in.)

8

6

Project No.: 135-301 (Geo: 0101-025.01)

Project Description: Reconstruction of Atlantic Street and Replacement of Metro-North Railroad Bridge No. 8012R

Pavement Structure

Stratified

Sand & Gravel

Town:

Route No.:

Bridge No.:

24

24

Hole No.:

Stat./Offset:

Surface Elevation:

**Material Description** 

and Notes

Dense, brown C-F SAND and GRAVEL, trace silt

Miscellaneous

Very dense, brown C-F SAND and GRAVEL, trace silt

Core Barrel Type: NQ

Northing:

Easting:

AA-13N

Elevation (ft)

Sheet

1 of 2

SM-001-M REV. 1/02

REPLACEMENT OF MNRR BRIDGE **OVER ATLANTIC STREET** PHASE 2

**STAMFORD** 

**NORTH ASSEMBLY AREA** 

**BOR-51** 01.09.051 **BORING LOGS - 9** 

135-301